



The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

MARCH 14 1953



***for your customers**

....speedy relief from
troublesome coughs

***for yourself**

....assured repeat sales

'ZEPHROL'

trade mark **EPHEDRINE COUGH SYRUP** brand

The efficacy, rapidity of action and palatability of 'Zephrol' ensure that your customers will call again. Supplied in 2½ fl. oz. bottles. List price 2s. 6d. plus purchase tax.

Bonus terms of 13 to the dozen from wholesalers.

AN M&B BRAND MEDICAL PRODUCT



manufactured by
MAY & BAKER LTD

MA878

A FINE TRADITION —

*maintained and upheld in
many parts of the world by
the skill of Scottish Industry.*



TURMOIL, A 'BUSTLER' TYPE TUG
BUILT BY HENRY ROBB LTD, LEITH

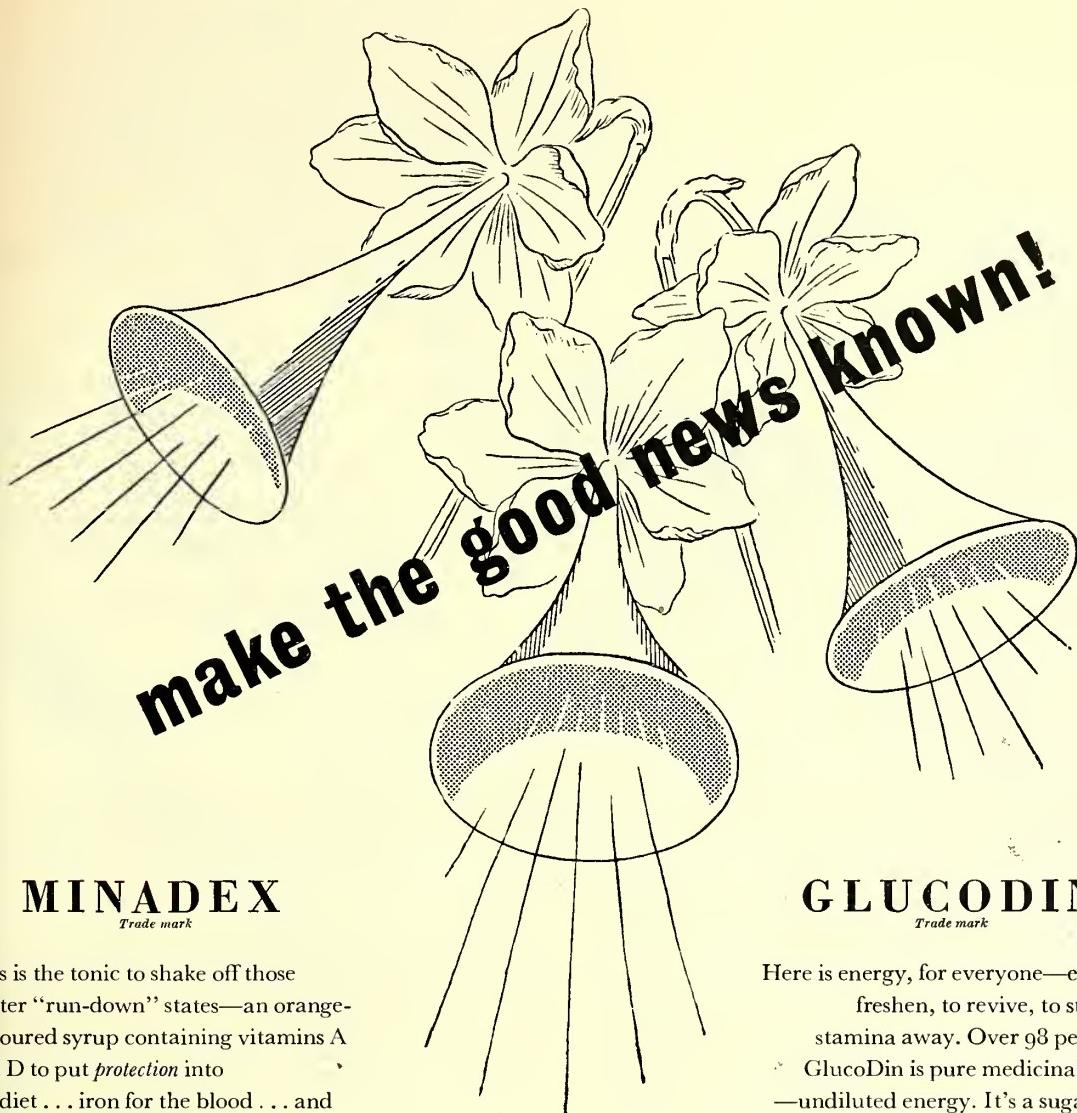
For Fine Chemicals and
Pharmaceutical Preparations
including

T.&H. SMITH LTD.

BLANDFIELD CHEMICAL WORKS

EDINBURGH · SCOTLAND

CODEINE
MORPHINE
SANTONIN
EPHEDRINE
ETHYLMORPHINE



MINADEX

Trade mark

This is the tonic to shake off those winter "run-down" states—an orange-flavoured syrup containing vitamins A and D to put *protection* into the diet . . . iron for the blood . . . and glycerophosphates for the nerves. Delicious straight from the spoon or mixed with milk.

Bottles: 6 oz.: 2/6 (+ 7½d. tax)
22/6 net per doz.
12 oz.: 4/4 (+ 1/1 tax)
39/- net per doz.

CYTACON

Trade mark

Sharpens the appetite and brings, in appropriate cases, improvement in well-being and accelerated weight-gains in underweight children.

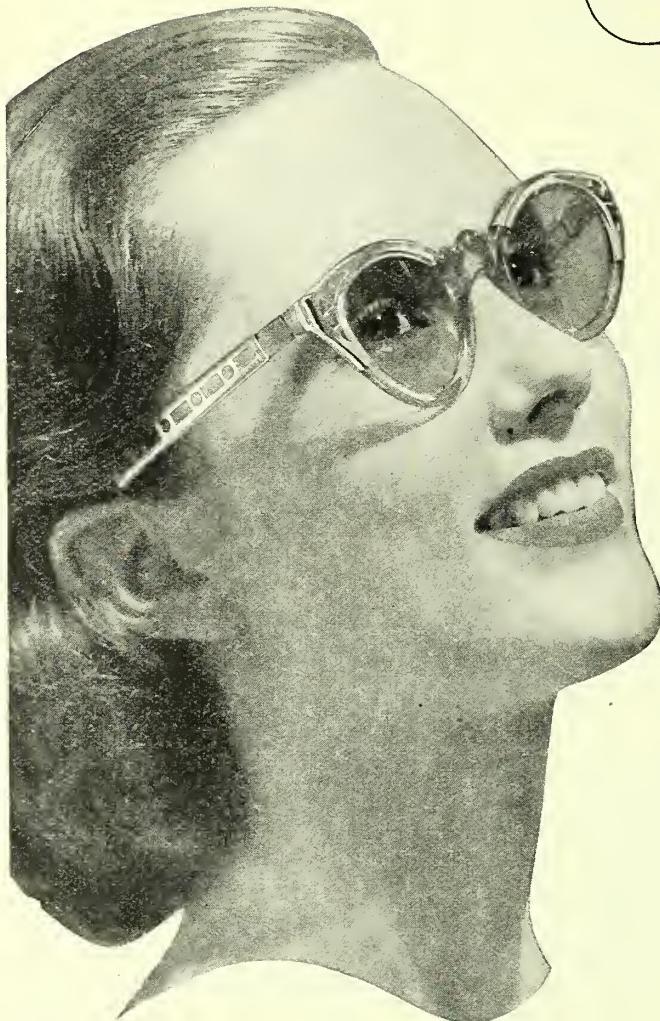
Tablets (10 micrograms) 50: 5/-; 45/- net per doz.
500: 40/-; 30/- net each
(50 micrograms) 25 : 8/6; 76/6 net per doz.
Liquid: 6 fl. oz.: 9/6; 85/6 net per doz.

FOR CONVENIENCE—ORDER THESE STANDARD PARCELS

GLUCODIN Parcel 1 2 doz. x 1 lb. cartons £2.80 net **MINADEX Parcel 1** 2 doz. x 6 oz. bottles £2.00 + P.T. 15/-
MINADEX Parcel 2 1 doz. x 12 oz. bottles £1.14.8 + P.T. 13/-



GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX. BYRON 3434



Flattery

You do more than sell eye-protection when you sell Thurgar Bollé sunglasses. You flatter someone's vanity and that's always good business.

Now is the time to act if you want to be sure of bumper sales of Thurgar Bollé Sunglasses during the Coronation season.

The intriguing range of 1953 models, fitted with Crookes precision lenses, will again set the fashion in protective eye-wear in all parts of the world.

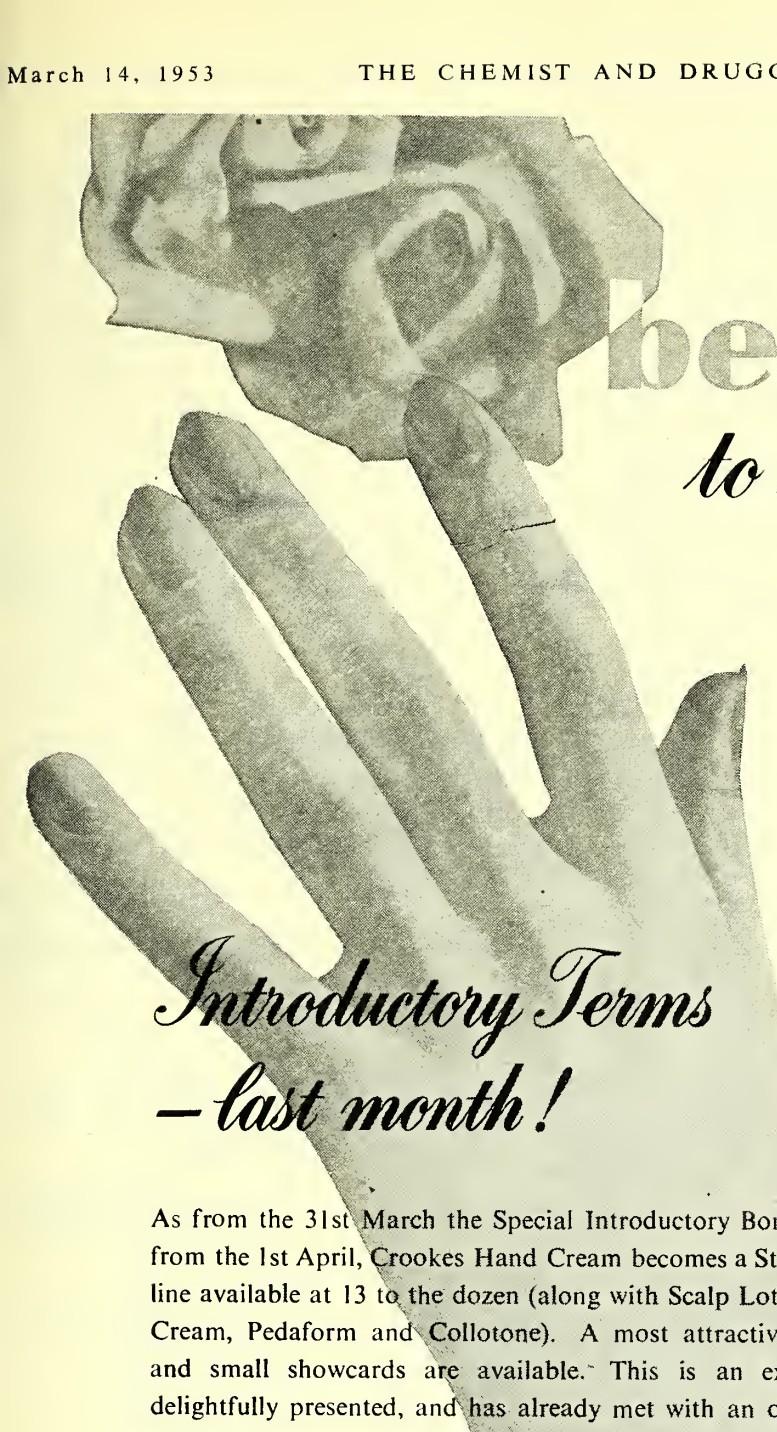
Advertised in principal fashion and women's journals.

Order early from your wholesaler in time for Spring Trade.

**NEW DESIGNS AND COLOURS
FREE DISPLAY CABINETS**

Thurgar Bollé
SUNGLASSES
Such comfort - such elegance

THURGAR BOLLÉ LTD., ORIENT HOUSE, WELLINGBOROUGH, NORTHANTS
Telephone : Wellingborough 2415 London Showrooms: 96 Regent Street, London, W.1



beauty
to hand

*Introductory Terms
—last month!*

As from the 31st March the Special Introductory Bonus Terms cease but, from the 1st April, Crookes Hand Cream becomes a Standard-Bonus-Terms line available at 13/- to the dozen (along with Scalp Lotion, Iodine Oil, Zinc Cream, Pedaform and Collotone). A most attractive Display Container and small showcards are available. This is an excellent preparation, delightfully presented, and has already met with an outstanding response.



CROOKES Hand Cream



IN THE NEW PATENT NON-CRUSHABLE TUBE

Selling price: 3/4 (inclusive of 100% P.T.)

PATA

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON N.W.10

Prepared a New Pack or improving on an Old Pack is a specialists job and we are in that exclusive position of being able to offer you that particular advice.

If you are worried about your printing not "TELLING AND SELLING" its message to the public, write to

ALF. HARRISON & SONS LTD.
MEDICAL, CARTON & COLOUR PRINTERS
BURLEY ROAD, LEEDS, 4
Phone: LEEDS 52668/9 Grams: "IDEAS" LEEDS, 4

The '52-'53 Cephos advertising campaign covering press and films will create an even greater demand for this famous remedy. To bring the full impact of this advertising into your shop, apply direct for Cephos Sales-Aid Material.

Help us to help you by carrying ample stocks.

Cephos
DOSE FOR ALGIUS
SELLS readily and steadily

We are actual makers

We specialise in quality ASPIRIN tablets

**PACKED OR IN BULK
BEST PRICES
FINEST QUALITY
PROMPT DELIVERY**

also SACCHARIN TABLETS—still the lowest price for large or small quantities

100 STANDARD SACCHARIN TABLETS
Each tablet contains 0.25g saccharin
0.25g citric acid

WALLIS LABORATORY LIMITED
58 KING GEORGE'S AVENUE, WATFORD, HERTS.
Telephone: WATFORD 2812

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a MAN'S Brush**that helps to keep
itself CLEAN***Cleaned in a jiffy*

Simply lift the moveable base plate, drawing deeply embedded hair to the top, push the plate back again and gently comb the hair away. It's simplicity itself.

The very latest design in modern hairbrushes, together with a comb and a soft brush for removing loose hair and dandruff from the moveable plate. All packed in a smart case (as illustrated). Of great value both in the Home and Salon.

Order now through your wholesaler or direct from Hindes Limited, Bromsgrove Street, Birmingham 5.

Hindes "GENIK" EASY-CLEAN HAIRBRUSH

HINDES LIMITED, BROMSGROVE STREET, BIRMINGHAM, 5

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A new combination**CODIS**
REGD.**soluble aspirin with codeine phosphate and phenacetin**

Codis presents a familiar grouping of analgesic drugs; aspirin, phenacetin, codeine phosphate; with an important advantage. The "aspirin" in Codis is rendered soluble, as in 'Solprin.'

Placed, uncrushed, in water, a Codis tablet disperses in a matter of seconds to form a solution of calcium aspirin and codeine phosphate with finely suspended phenacetin. The chance of irritation of the gastric mucosa by undissolved particles of aspirin is thus minimised.

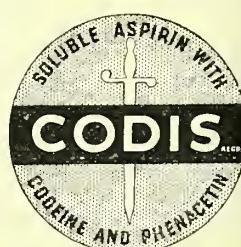
Codis is recommended for all those conditions for which Tab. Codein. Co. B.P. would be prescribed. It has the added advantages of greater ease of administration and far less likelihood of aspirin intolerance, while the rapid absorption of the soluble aspirin promotes prompt relief.

COMPOSITION Each Codis tablet contains: Acid. Acetylsalicyl. B.P. 4 grs., Phenacet. B.P. 4 grs., Codein Phosph. B.P. 0.125 grs., Calc. Carb. B.P. 1.2 grs., Acid. Cit. B.P. (Exsic.) 0.4 grs., Excip. ad. 11.45 grs.

Codis is not advertised to the public

DISPENSING PACK (Purchase Tax free) 300 tablets in distinctive gold foils of 6 tablets each 16/6 per box.

PUBLIC SIZES Packs of 20 tablets 2/9 each inc. P.T.



CHLOROPHYLL

is today the
BIGGEST BEST SELLER!

We are the first to offer it in the most pleasant way
at a very popular price and with a large margin of profit
for you as

"PHYLL"

CHLOROPHYLL CHEWING GUM

(NOW FULLY SWEETENED)

If you are a Wholesaler . . . please fill in and send us the attached
coupon

If you are a Retailer please fill in and send us the coupon as
well; we shall pass it to wholesalers
distributing these lines

To DEGREE MANUFACTURING CO. LTD.
Southall Lane, Southall, Middlesex

Send me—without obligation on my side—FREE samples, prices and other details
of "PHYLL" the Chlorophyll Chewing Gum

I am a WHOLESALE / I am a RETAILER
(Please delete words not applicable)

Name

Address

be sure - be 'Cox sure'

that you sell —

PILLS and TABLETS

**which conform to the highest standard of purity
accuracy and dependability**

Laboratory controlled
scientific production
in any quantity

Bulk or packed
Coated or uncoated

**PRIVATE FORMULAE
A SPECIALITY**

You can rely on —

CARTHUR H.
Cox *of* **BRIGHTON**
& CO. LTD.

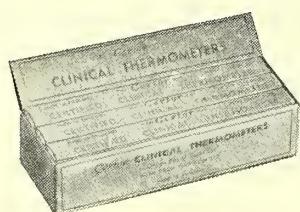
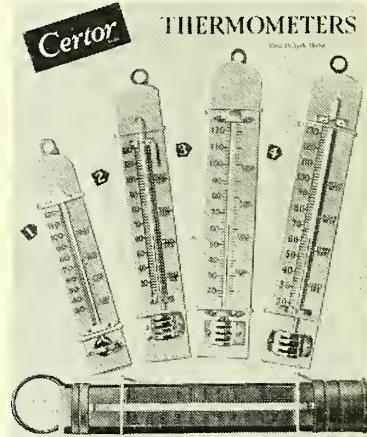
New Coloured
DISPLAY CARD
for

Certor THERMOMETERS

gives you an effective display for a reliable line

CERTOR THERMOMETERS are now available on this new coloured display card. The card holds four Household Thermometers (one each of four sizes) and one Bath Thermometer.

ALWAYS IN DEMAND. Certor Thermometers are good, reliable thermometers. They are always in demand. **13/11** per card.



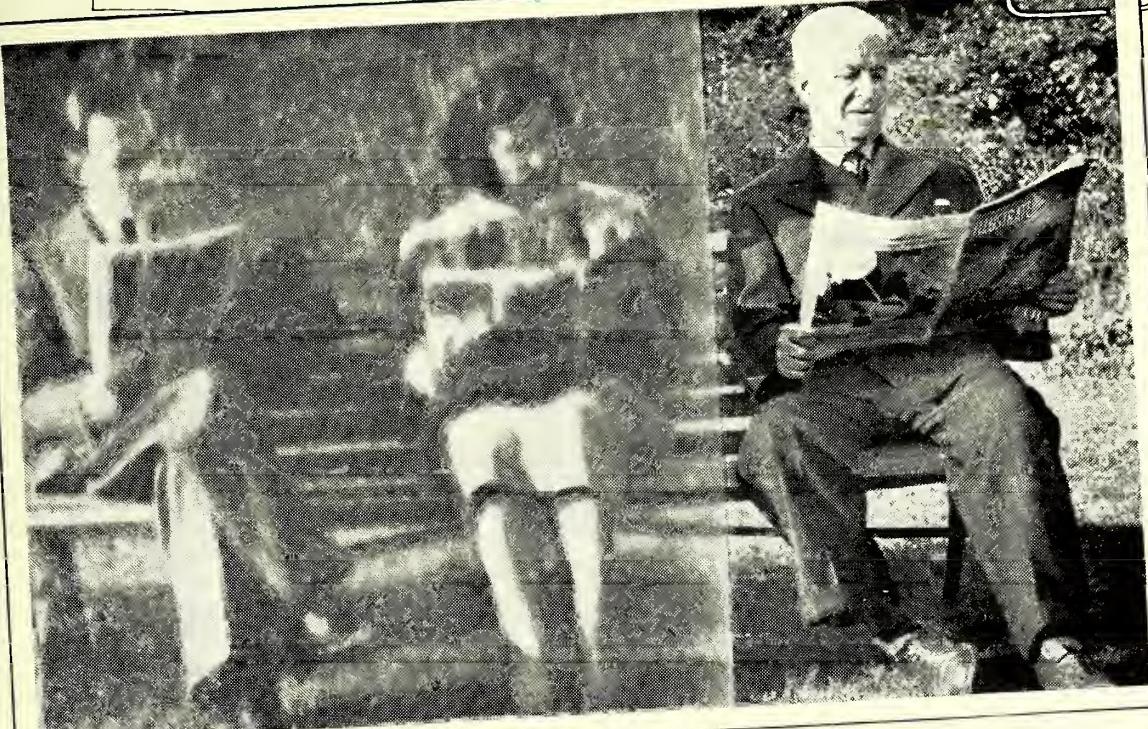
NEW DISPLAY PACK FOR Certor CLINICAL THERMOMETERS

GOOD FOR KEEPING YOUR STOCK—GOOD FOR DISPLAY. Certor Clinical Thermometers are now supplied in small printed outer cartons holding six thermometers in their own cartons. The lid of the outer carton folds for display as shown. The outer carton keeps the stock in good condition ; it also makes a neat display unit.

	N.P.L. Tested	Doz.	Doz.
Long bulb	33/9	39/3	
Stubby bulb	35/9	41/3	

Certificates of accuracy with each thermometer

*Needs to be
developed fully!*



One-third of the market already uses a denture
cleaner . . . two-thirds awaits development

1 in 3 of the twenty million denture wearers already use a specific denture cleaner. But the other two-thirds still use makeshifts. Even kitchen scourers!

Research shows that when customers try Steradent they keep on buying it. Steradent's lively, new biggest-ever advertising is aimed at those remaining two-thirds!

So just show your customers that you stock Steradent and (if we may strain the metaphor beyond endurance!) . . .

*Draw in the other two
with Steradent!*

Corvette

*has a
story
to tell*

Corvette has a story to tell the chemist — and some thanks to give. For this range of men's toilet preparations launched only 16 months ago has already made a remarkable place for itself at the top of the trade. We are grateful for your part in this achievement.

And Corvette has a story to tell shavers. All Corvette shaving preparations contain a wetting agent. We have chosen a striking way to put this fact over to the public. We say 'Corvette shaves you better' — and we mean it. The new Corvette advertising will tell millions of men why Corvette is always worth the few extra pence.

**Wetter
and
Better!**

Water is great softener, and Corvette contains a 'wetting agent' that makes water *wetter*. It does this by reducing its surface tension so that it penetrates to every separate hair of your stubble and clings closely to each bristle. You can use less Corvette and get more softening action. For a noticeably better shave use Corvette.

Lather or brushless cream, shaving stick, bowl, refills, after shave lotion. 2/- to 5/6. Made by Goya (Men's Division), 161 New Bond St. W.1

Corvette
shaves you better

New Corvette advertising in :

Daily Telegraph	Daily Express	Times
Picture Post	Everybody's	
Illustrated	John Bull	
Men Only	Punch	



SHAVING STICK 3/- SHAVING BOWL 5/6 LATHER SHAVING CREAM 3/- BRUSHLESS SHAVING CREAM 3/- HAIR CREAM 3/6 BRILLIANTINE 4/- SOLID BRILLIANTINE 3/6 TALCUM POWDER 4/6 AFTER SHAVE LOTION 4/-

SURGICAL DRESSINGS

SPECIALISTS in the Manufacture of

**PURE WHITE ABSORBENT GAUZES,
AND BANDAGES**

Hospital and B.P.C./N.H.I. Qualities
Plain and Sterilised



**WOVEN BLEACHED AND PACKED IN
OUR MODERN HYGIENIC FACTORIES**

AT
DUDLEY AND BLACKBURN



**SUPPLIERS TO GOVERNMENT DEPARTMENTS,
HOSPITALS, WHOLESALERS, ETC.**

Sanford
Manufacturing & Trading Company Limited
RUSSELL HALL • DUDLEY • WORCS

Special Bonus Offer

FOR
COOPER'S
 HOUSEHOLD
AEROSOL



5% BONUS

- PARCEL 'A'** — 4-doz. x 6-oz.
PARCEL 'B' — 2-doz. x 6-oz. & 1-doz. x 12-oz.
PARCEL 'C' — 3-doz. x 6-oz. & $\frac{1}{2}$ -doz. x 12-oz.

$2\frac{1}{2}\%$ BONUS

- PARCEL 'D'** — 2-doz. x 6-oz.
PARCEL 'E' — 1-doz. x 6-oz. & $\frac{1}{2}$ -doz. x 12-oz.

To order, simply quote identification letter of parcel or parcels required.

Don't miss this opportunity! Order EARLY to secure the bonus discount and make sure that stocks are on hand in time for the season. Delivery will be made during April unless requested earlier, and invoices can be rendered direct or through your usual Wholesaler. No extra bonus will be allowed after April 30th.

- The **MOST HEAVILY ADVERTISED** insecticidal aerosol on the market. Extended Press schedule for 1953.
- Out sells all others. Attractive new display unit will be available.
- **TWO SIZES again — 6-oz. & 12-oz.**
Retail prices 7/6, 12/6.

*The Super-efficient
NON-POISONOUS FLYKILLER
 containing "Pybuthrin"*

Here's a chance of EXTRA profit during the fly season this year! On orders for Cooper's Household Aerosol placed between now and APRIL 30th, a SPECIAL BONUS DISCOUNT will be allowed on the parcels listed on the left, in addition to normal Trade and Cash Discount.

COOPER'S Household Flyspray

A special BONUS DISCOUNT of 5% will also be allowed on orders of £5 or over for Cooper's Household FLYSPRAY placed between now and APRIL 30th. Sprayers can be included to make the order up to £5. Prices of Cooper's FLYSPRAY are:-

10-oz. tin—2/9 20-oz. tin—4/9
 Sprayers—5/6



COOPER, McDougall & Robertson Ltd., Berkhamsted, Herts
 Scottish Office: 62, Robertson Street, Glasgow, C.2

Watch for this ½ page advertisement in the DAILY EXPRESS*

*(Britain's 4,093,580 circulation National Daily Paper)

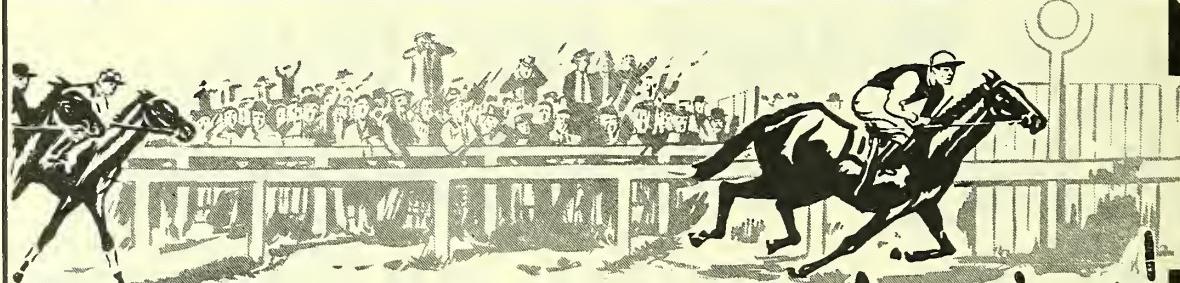
THIS is the opening shot in a barrage of advertising to appear shortly for Radio Gold—the quality double-edge blade at the sensationally low price of 6d. for 4. Other large space advertisements will appear continuously in the most

important National Daily Newspapers and in all the large circulation Sunday Newspapers—a total of nearly 200,000,000 separate impacts on men readers in Great Britain! Cash in on this immense advertising drive by giving Radio Gold prominent displays on your counter and in your window!

**GET SET FOR THE
“RADIO GOLD” RUSH
ORDER GOOD STOCKS
NOW!**

Guaranteed by Ever-Ready Razor Products Ltd.

TRADE PRICES		Price per carton	P. Tax
Radio Gold double edge Blades packed in Display Cartons each containing 36 packets of 4 blades to retail at 6d. a packet.		9/9	3/3
Nett Cash 30 days from date of invoice			
WHOLESALE PRICES AND TERMS ON APPLICATION TO EVER-READY RAZOR PRODUCTS LTD., THE HYDE, HENDON, N.W.9.			



First Again!

SECTO D.D.T.

"PRESS BUTTON" AEROSOLS

Lead the Way

NOW AVAILABLE AT ATTRACTIVE PRICES



PRESS BUTTON SPRAYING **AT 5/6**

3
SIZES

4oz. SECTO AEROSOLS ... 5/6 RETAIL

6oz. " " " 7/3 "

12oz. " " " 12/- "

LESS NORMAL TRADE PROFIT MARGINS

★ SPECIAL DISCOUNT BONUS · · · ·

available until **APRIL 30th.**

5% ON 4 DOZ. - 6 OZ. OR EQUIVALENT

2½% ON 2 DOZ. - 6 OZ. OR EQUIVALENT

*Please keep AEROSOL orders
separate from other items.*

your **BIG** Opportunity for "BEST EVER" **DISCOUNTS**

**NEW
SECTO D.D.T.
POWDER**

**RETAILS
AT 9 D.
BONUS
DISCOUNT
3 D. PER DOZ.
ON 6 DOZ.
LOTS**

(KEEP ORDER
FOR THIS
SEPARATE
FROM
GENERAL
LINES)

SPECIAL PARCEL OFFER!

**SEND YOUR ORDER NOW FOR DELIVERY
NOT LATER THAN APRIL 30th AND YOU
OBTAIN :—**

15% SPECIAL DISCOUNT ON ORDERS OF £10 VALUE

THE VALUE OF ORDERS IS BASED
ON GENEROUS TRADE LIST PRICES.
£5
SECTIONAL HAND SPRAYERS
INCLUDED

SECTO HAND SPRAYER

SECTO HAND SPRAYER

...RATORS CAN BE
EDED TO MAKE UP THE VALUE
OF THE PARCEL FOR SPECIAL
THE DISC

DISCOUNT ON HAND SPRAYERS

ON HAND SPRAYERS
THEMSELVES BEING 10% ON £10 ORDERS

**ATTRACTIVE NEW DISPLAY
MATERIAL AVAILABLE
PRICE LIST ON REQUEST**

THE 1953 SECTO RANGE OF PRODUCTS IS THE BEST EVER SEND YOUR BONUS ORDER NOW

SECTO

EXTRA POWER

D.D.T.

CUPAL LIMITED, BLACKBURN LANCS.
MANUFACTURING CHEMISTS

NEW
 exciting perfume
 richer creamier lather
 Coronation wrapper



Here is proof that glamour need not mean extravagance—a perfumed, super-fatted beauty soap that costs no more than an ordinary toilet soap. New Araby is the name and 7d. is the price (Bath size 1/3). Can you doubt that New Araby means business—*big* business for you?

Bibby tells Britain

During March you'll see big eye-catching advertisements in the largest circulation National Newspapers and the most widely read women's magazines will be telling the whole country about New Araby... how it has been enriched with lanolin for extra kindness to the complexion and smoother creamier lather.

Stock up NOW with New Araby in its distinctive new Coronation wrapper. The terms are generous. Write for full particulars to: J. Bibby & Sons Ltd., King Edward Street, Liverpool, 3.

makers of Cidal Soap & Cidal Cream Shampoo
 (which contain Hexachlorophene)



For acidosis . . .

recommend

Rayner's
Lembar

all the year
 hot or cold



Lemons

Glucose

Scotch Barley

Sugar

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18

GLANOID

PANLITTOL
TABLETS

A combination of Pancreas grs. $2\frac{1}{2}$
 and Thyroid B.P. gr. $\frac{1}{10}$

•
**FOR CONTROLLING HIGH
 BLOOD PRESSURE**

•
 Supplied in Bottles of 24 and 100

THE ARMOUR LABORATORIES
 (ARMOUR & COMPANY LTD.)

LINDSEY STREET, LONDON, E.C.1

Telephone: Clerkenwell 9011

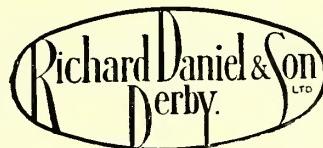
Telegrams: "Armosata-Phone," London

PENICILLIN PREPARATIONS

LOZENGES · TABLETS · OINTMENTS · Etc.

Aids to Dispensing Outfits of Creams and Drops

MANUFACTURED BY



DISTRIBUTED BY

MOORE MEDICINAL PRODUCTS LTD

I QUEENS TERRACE
ABERDEEN. Tel: 27233

64 GLOUCESTER PLACE
LONDON, W.I. Tel: WELbeck 5718/9

Detailed Price List on Request.

Millions of Gardeners . . .

Many of them attempting a planned scheme for the first time,
are needing help in their efforts to have beautiful and colourful

CORONATION YEAR GARDENS

Chemists in ever increasing numbers are stocking

SANGRAL

The TEN-DAY FERTILISER
The World's Greatest Liquid Manure

We believe you will be helping your customers
and yourself by making this friendly repeat line available.

ORDER FORM

TO: LASCO LTD., Carruthers Street, Liverpool, 3

Please send the following initial order:

72 @ 8d. ... £3 18 0d. Less 33½% trade discount
12 @ 2/6

Name.....

Address.....

.....

Kindly attach this order to your business letter paper



We have produced the DISPLAY CONTAINER illustrated for our CHEMIST friends who in ever increasing numbers are selling SANGRAL.

It holds 18 of the 8d. packets and the area is only 7 in. x 5 in.

DISPLAY this container during MARCH to OCTOBER and you will find SANGRAL SELLS ITSELF. Backed by NATIONAL ADVERTISING this attractive line makes steady profits for the retailer year after year.



'PYREX'

Regd. Trade Mark

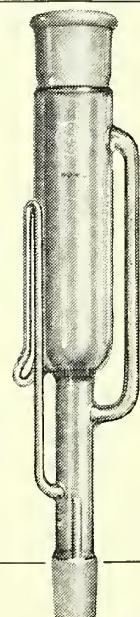
BRAND

*Laboratory and
Scientific Glassware*



'PYREX' Brand Laboratory and Scientific Glassware is made only by James A. Jobling & Co. Ltd., the original and the largest manufacturers of heat-resisting Glass in the United Kingdom.

All such glassware fabricated from 'PYREX' Glass in Sunderland carries the 'PYREX' trade mark indicated below, as a guarantee that it is Jobling-made throughout. When ordering, kindly insist on 'PYREX,' the first name in heat-resistant glass. If you have any difficulty in obtaining your 'PYREX' supplies, please write to the sole manufacturers at Wear Glass Works, Sunderland.



This 'PYREX' Soxhlet Extractor, (No. IS214), is just one of the hundreds of different items of Scientific Glassware made by Joblings for Chemical Research and routine work. If you would like a copy of their 72-page Booklet, the coupon below will bring it by return.

FILL IN THIS COUPON TODAY

Messrs. James A. Jobling & Co. Ltd.
Wear Glass Works, Sunderland.

Please send me a copy of your 72-page Booklet of 'PYREX' Laboratory and Scientific Apparatus.

Name.....

Address.....

S 54

Special Apparatus

We can fabricate glassware to your own design, made to serve your specific purposes, and we welcome your enquiries.



JAMES A. JOBLING & CO. LTD.
Wear Glass Works Sunderland



REGD. TRADE MARK

The original and only makers of 'PYREX' Brand Glass in the United Kingdom.

REGD. TRADE MARK

Everyone in Britain responds to this Advertising



THE DAILY EXPRESS . . .

Selling 4,108,855 copies a day, the Daily Express is the best selling medium in Britain. Horlicks have not just one, but seven half-pages in the Express from September 1952 to March 1953, plus other large spaces. This pattern is followed in almost every national newspaper and magazine.



THE DAILY EXPRESS AGAIN! . . .

Horlicks are also using the Daily Express to publicize an article by Professor Mottram—one of the leading dieticians in Britain: his full scientific statement supports and confirms the advantage of taking Horlicks.

*Heavier than ever
this year!*

HORLICKS is a household name because Horlicks advertising is seen, *and read*, regularly by so many millions of people.

The Daily Express, with its huge circulation of 4,108,855, has a still larger estimated readership of at least 8,000,000 people, making it Britain's best selling medium. This is why Horlicks uses the Daily Express—to sell to this vast audience.

This winter, Horlicks advertising pressure is greater than it has ever been

The famous Horlicks strip-cartoon stories, now appearing in the Daily Express and other national newspapers, have consistently achieved, and continue to achieve, the highest readership of *any* advertisements in the press.

To make the most of this tremendous promotional campaign, please see that Horlicks is well displayed. Some unusually vivid display material is being prepared—with a sharp eye on your requirements and the space you can spare. Ask Horlicks' representatives to tell you about it!

HORLICKS

display material
will suit
your needs



TO ALL PHARMACISTS

P.A.T.A.

BORNOLIN

**A NON-ADHERING TREATMENT
FOR BURNS AND SCALDS**

Energetic Mail, Press and Personal Propaganda, is maintained, from which an ever increasing demand is resulting

We therefore seek your co-operation in its distribution

**PRICE TO YOU 27/- doz.
RETAILING AT 3/- per tube**

1 lb. Jars for Dispensing only - 20/- each net

PULMO BAILLY

The winter is not yet past, and you may still expect a heavy demand for this well established product.

The packings available are:

Standard—Your price 34/- per doz.
(90 c.c. Bottle) plus 11/0½ P.T.

Retailing at 4/9 each

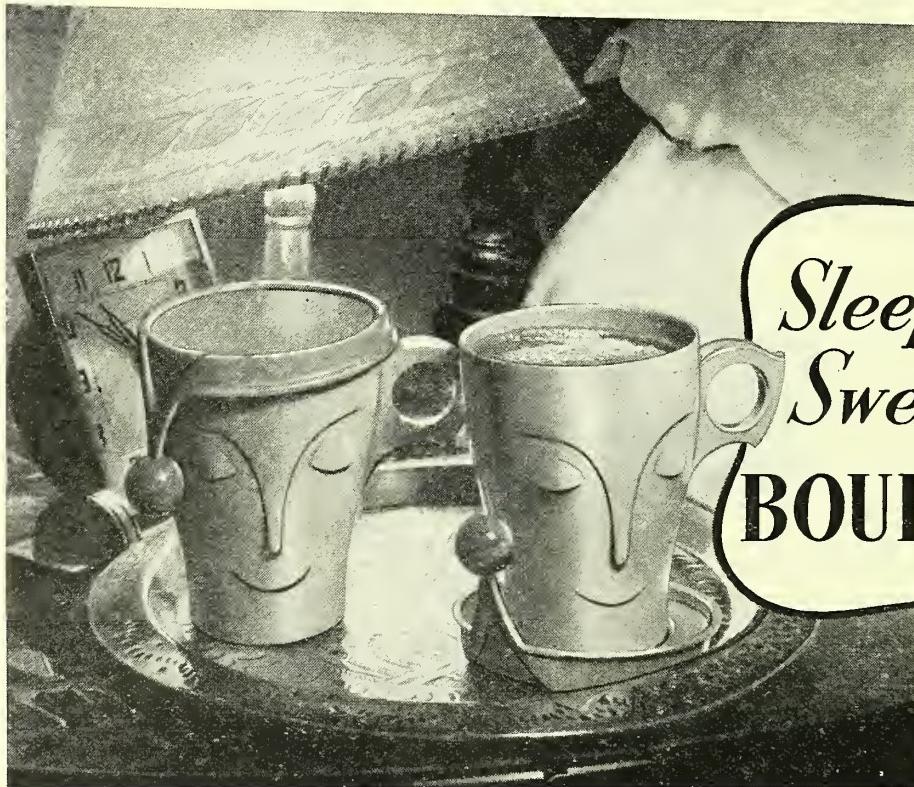
DISPENSING:

**16 fl. ozs. 11/6 net.
80 fl. ozs. 45/- net.**

May we hope for your continued support in the distribution of this line

BENGUE & CO. LTD.

Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDLESEX

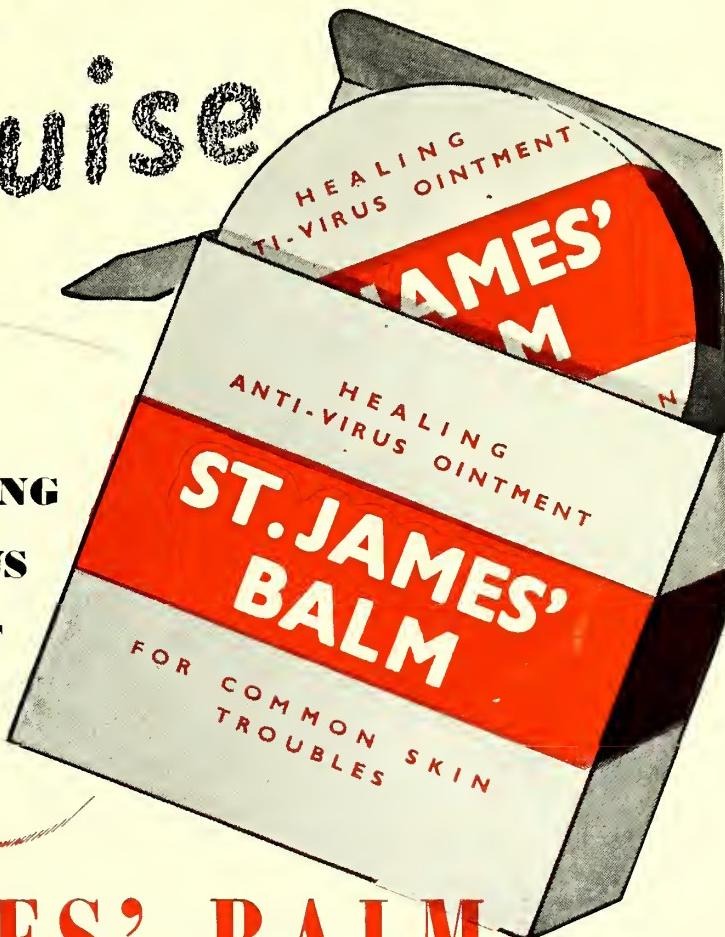


*Sleep
Sweeter*
BOURNVITA

Made by
CADBURY

An Old Friend in a New Guise

**NEW PACKAGING
FOR THIS FAMOUS
FAMILY OINTMENT**



S^T. JAMES' BALM

THE TRIED and TRUE REMEDY

THE FAMILIAR TIN and carton of ST. JAMES' BALM now give way to a more modern style. The anti-virus formula of the ointment itself has withstood the test of time and is still unexcelled as a treatment for numerous skin infections. Your customers can rely on ST. JAMES' BALM, as always, to remove the cause of skin troubles and heal the damaged tissues. Its biological

dual action prevents the spread of infection while destroying the most virulent germs. We are proud that, over the years, the extensive sales of ST. JAMES' BALM have been built up almost exclusively on personal recommendation. Be sure to carry adequate stocks.

Users of our ointment are not only faithful but ever-increasing in number.



MEDICO-BIOLOGICAL LABORATORIES LTD

CARGREEN ROAD · SOUTH NORWOOD · S.E.25

new

Anne French

CLEANSING CREAM

with exclusive Derma-Callic Technique
is wonderful news for women !

The 'Anne French' deep cleansing technique is now available for every woman . . . the new cream is as effective for the normal-to-dry type of skin as the popular cleansing milk for the skin which tends to be greasy.

With the addition of Cleansing Cream users, the sales potential for 'Anne French' is now increased seven-fold — and there will be dramatic, consistent national advertising to develop this enormous market. Remember, on best terms you make a clear profit of 10½d. on every 4/- sale, Cleansing Cream or Milk. It pays to stock, display and SELL 'Anne French'.

'ANNE FRENCH' CLEANSING CREAM

Retail selling price	4/- (inc. tax)
List price per dozen	20/-
Purchase Tax per dozen	20/-
Your basic profit per dozen	8/-

'Anne French' Cleansing Cream qualifies for the usual co-operation discounts on I.C.C. mixed parcels. £5 parcel 10%. £10 parcel 12½%. Profit on best terms, 37.5%.

'ANNE FRENCH
 If your skin is inclined to oiliness, try 'Anne French' Deep Cleaning Cream. It's specially formulated for oily skins. Your fingers bottle.

YES - IT'S ADVERTISED

Watch for the national advertising
starting in May with big spaces in the
“Daily Mirror”, “Woman”,
and “Woman’s Own”.

sure this moment...
It's your introduction to
'Anne French' CLEANSING CREAM

Yes, dreams can come true—if it's really
lovely-to-look-at skin you long for!

'Anne French' beauty scientists have exciting news . . . they predict a new era in facial cleansing! What makes them so sure? It's the new, Derma-Callic technique of 'Anne French' Cleansing Cream which give you skin so fine, so smooth, so beautiful . . . how thrilled you'll be! The new 'Anne French' Derma-Callic technique is this. First, pores of the skin are softened and penetrated; then deep, deep cleansed away stale make-up and hidden dirt and grime (trouble makers, these); lastly the pores are conditioned to give you a naturally healthy, flawless skin—in the envy of every woman! 'Anne French' Cleansing Cream is so full of rich oils to soften and smooth away those last thing at night, before putting on make-up.

... it's formulated especially for normal and normal-oily skins. It's finely emulsified 'Anne French' Cleansing Cream labelled, shaped-to-fit your hand.

'Anne French' CLEANSING CREAM

at your chemist

the Derma-Callic technique—
Cleansing Cream:—
skin are softened
penetrate.
dirt and stale
cause blemishes,
conditioned to give
both, beautiful skin.



CLEANSING MILK
finely emulsified 'Anne French'
labelled, shaped-to-fit
PRICE 4/-

StaffAllenS

Founded 1833

English-distilled and imported

ESSENTIAL OILS

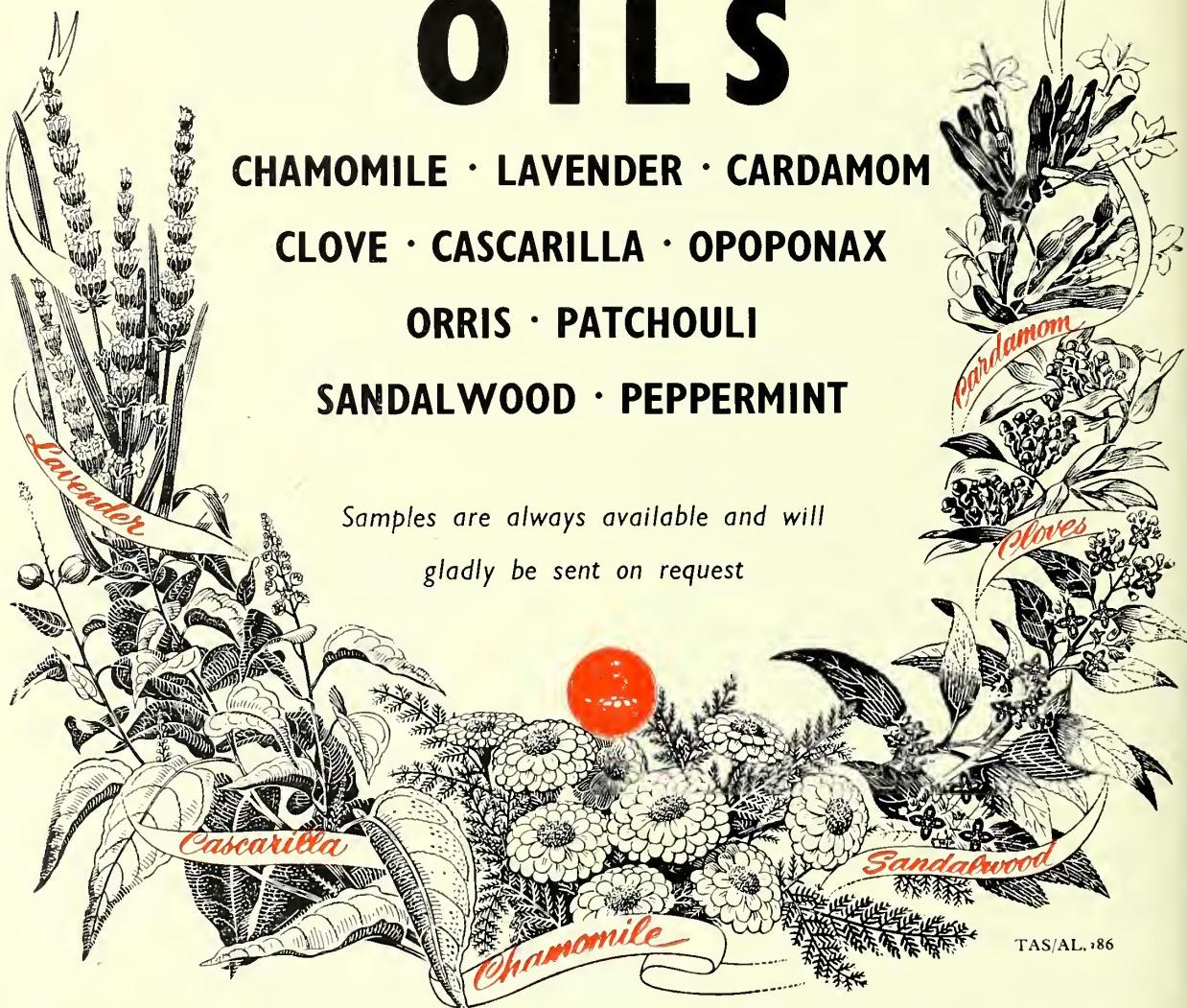
CHAMOMILE · LAVENDER · CARDAMOM

CLOVE · CASCARILLA · OPOPONAX

ORRIS · PATCHOULI

SANDALWOOD · PEPPERMINT

Samples are always available and will
gladly be sent on request



TAS/AL. 186

STAFFORD ALLEN & SONS LTD. Wharf Rd. London, N.1 CLErkenwell 1000

Can we do business together?

If you already do a pretty good photographic trade we certainly can. The brilliant Bolex L.8 cine camera is fast winning new enthusiasts to home movie-making—many of them converts from still photography. This is not surprising when you consider that on a reel of 8 mm. film, costing a little over £1. Bolex users get as many as 24 different shots.



THE FINEST SALES AIDS in the trade!

Beautifully produced folders, booklets, showcards, make the Bolex L.8 the easiest cine camera to sell. Generous trade terms make it a worth while business proposition for you.

At only 11d. a shot this obviously opens up a big new market for home movies and our national advertising this year in "Punch," "Tatler," "Country Life," etc., will be stressing the low cost of 8 mm. film-making with a Bolex L.8, and urging people to start film-making in Coronation Year.

Bolex is the best name in the home cine business and we are certain that linking your good name with our good name will benefit us both. There's no time to lose though. Advertising starts in March. So write for details right away.

BOLEX L.8 CINE CAMERA



Sole U.K. Wholesale Distributors :

CINEX LTD., 9/10, NORTH AUDLEY STREET, LONDON, W.I.

Phone : GROsvenor 6546

Last year more than photographers used

1952

The Guaranteed film

IF..

ferrania

does not give you better snaps
we will refund your money

If you are dissatisfied with your results, send
negatives and carton direct to Ferrania Dept.,
Neville Brown & Co. Ltd., 77 Newman St., London,
W1 stating name and address of shop and date
of purchase. We undertake to replace the film
or refund its cost.

1953

The Guaranteed film

ferrania

will give you BETTER snaps
- or we will refund your money

If you are dissatisfied with your results, send
negatives and carton direct to Ferrania Dept.,
Neville Brown & Co. Ltd., 77 Newman St., London,
W1 stating name and address of shop and date
of purchase. We undertake to replace the film
or refund its cost.

Last year thousands of these cards
were displayed by dealers throughout
the country, but only three films
were returned. In no case was the
trouble due to the film itself.

Last Summer, we broke new ground by definitely guaranteeing every Ferrania film—no other film carried such a guarantee. Thousands of showcards were displayed throughout the season in dealers' windows and on their counters, yet only 3 films were returned. These were gladly replaced, even though no faults were found in the film itself. This year a new and more attractive colour showcard is available for counter or window display.

TWO FAST SELLING CAMERAS

FERRANIA 'ELIOFLEX'

A reflex-type camera with an aluminium die-cast body, covered in real leather with polished headband and satin chrome trim. 12 exposures $2\frac{1}{4} \times 2\frac{1}{4}$ in. on size 20 film. Coated Galileo Monog lens f/8, f/11, f/16 and f/22. Speeds 1/25, 1/50, 1/100, 1/200 and B. Synchronised for flash. Focusing scale 7-ft. to infinity.

£12 - 18 - 0



FERRANIA 'IBIS'

An all-metal miniature type camera. 8 exposures, $2\frac{1}{4} \times 1\frac{1}{8}$ in. on No. 27 film, with 7.5 cm. lens which extends for use. Direct-vision optical viewfinder. Shutter cannot be fired until camera is ready.



£3 - 18 - 9

a million **ferrania**



IN 1950

Ferrania was first introduced to the British market. Some were doubtful about the chances of an "unknown" film, but by the end of the summer, Ferrania sales had exceeded even our most optimistic forecast.

IN 1951

Consistent advertising in both the National and photographic press, added to the reputation already achieved, resulted in an even more successful season, in which the theme was "Make friends with Ferrania—the wonderful film."

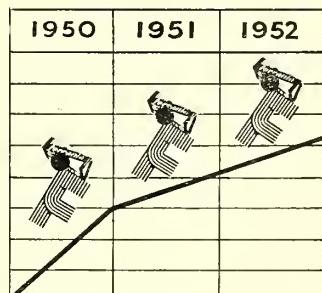
IN 1952

Photographers everywhere had begun to realise that Ferrania had qualities not possessed by other makes and sales increased throughout the year to a volume exceeding either of the preceding years. Hundreds of thousands more camera enthusiasts discovered that "Ferrania photography is fun."

IN 1953

- In Coronation Year, more photographs will be taken than ever before. Ferrania users from many nations will demand their favourite film and Ferrania users in your district will be recommending it to their friends. Please place your order in good time.

FERRANIA SALES



this year —

you'll sell more than ever!

Sole importers of
Ferrania products

NEVILLE BROWN & CO. LTD.

77 NEWMAN STREET : LONDON : W.1 Tel: LANGham 7161 (10 lines)

PEAK FILM PRODUCTIONS

ANNOUNCE COLOUR FILMS OF THE

Coronation

SILENT ONLY (16 F.P.S.). Each title 4 minutes running time. Deliveries will commence JUNE 1953

SYNOPSIS:

The State Drive of Queen Elizabeth II and the Duke of Edinburgh, the Queen Mother, Princess Margaret, and other members of the Royal Family, together with the Household Cavalry in all their colourful splendour, making its way from Buckingham Palace, through the Mall, Trafalgar Square, and Whitehall to Westminster Abbey. It will conclude with the Coronation Ceremony in Westminster Abbey.

Reel 1.

(PRO. NO. 111)

The State Drive of The Queen and Her Entourage after the Crowning as she makes her way through the crowded streets to the City of London, and the West End, and with final scenes at Buckingham Palace. A feature of the finale of this reel will be the balcony gathering of the Royal Family as they appear to the vast multitudes below.

Pro. No. 113

Coronation London

THE CAPITAL CITY DRESSED FOR CORONATION YEAR WITH NIGHT SCENES

VERSIONS APPLYING TO ABOVE TITLES

16mm. 100 FT. COLOUR £6 . 10 . 0 RETAIL	16mm. 100 FT. BLACK AND WHITE £1 . 15 . 0 RETAIL
8mm. 50 FT. COLOUR £3 . 6 . 0 RETAIL	8mm. 50 FT. BLACK AND WHITE £1 . 2 . 0 RETAIL
9·5mm. 100 FT. BLACK AND WHITE £1 . 5 . 0 RETAIL	

WE WILL ALSO PRODUCE A SET OF 12 KODACHROME TRANSPARENCIES OF THE CORONATION TO SELL AT (4/- PER SET OF 12)

• FULL TRADE DISCOUNTS •

• PUBLICITY SUPPLIED TO STOCKISTS •

Owing to the unprecedented demand,
you are requested to place your

ORDER NOW!

WORLD COPYRIGHT RESERVED

PRODUCED AND DISTRIBUTED BY

PEAK FILM PRODUCTIONS, 171 VICTORIA STREET, LONDON, S.W.1 (Near Victoria Station)

DIRECTION: J. S. FRIEZE & CO. LTD.

TEL. VICTORIA 3787-6

Photographic Service—
for all trade D & P
DEVELOPING - PRINTING - ENLARGING
executed by experienced staff in modern laboratories

24 hours service
mail orders despatched
same day



Specialities! GIANT enlargements, CINÉ processing,
Miniature Processing, Film Strips, Lantern Slides—from any size
negative. View post cards by GRABER machine in any quantity for any
purpose. Advertising—Publishing—Industrial.

Official Processors to the trade of *Agfacolor* in modern laboratories
fully equipped with the most up-to-date German Equipment and AGFA
trained staff.

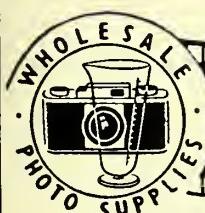
TRADE AND
EXPORT ENQUIRIES
INVITED

Tempo

LABORATORIES LTD.
80, ST. JOHN'S ROAD, TUNBRIDGE WELLS
TELEPHONE: 21019

ONE FOR ALL . . .

Whether your requirements are small or large, you save time and trouble by ordering your Photographic Supplies from Fallowfield. ONE order—ONE account—ONE delivery covers ALL manufacturers and brands. We hold the largest wholesale stock in the country and guarantee prompt delivery. Our expert advice, based on a lifetime's experience of the photographic world is always at your disposal.



JONATHAN FALLOWFIELD LTD.

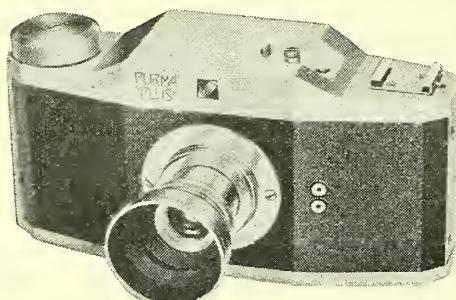
74 NEWMAN ST. LONDON W.I. MUSEUM 7401-2-3

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M. & B.
M.P.P.
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PHOTOGRIDS
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PURMA CAMERAS
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SMITHS
SILBER
TAYLOR-HOBSON
VANGUARD



The Simplest, Fastest Camera at anything near the price

All-metal focal plane shutter ★ Two external controls only ★ Speeds: 1/500, 1/150, 1/25 and "brief time" ★ Bloomed f/6.3 three-glass anastigmatic lens
Socket for locking cable release for "long time" ★ Shoe and internal contacts
for flash ★ 16 exposures on No. 27 or No. 127 films

The Camera with 3 years' Guarantee

Sole Distributors

PURMA CAMERAS LIMITED

7 Queen Street · Mayfair · London · W.I

Photographs without Fuss

© 241/59

SEVEN-HOUR D & P

service is offered from Easter on, to ONE London dealer. Must have large turnover in return for this **EXCLUSIVE** Super-Service. Two collections and deliveries daily.

Normal fast service to limited number of other dealers. Daily London collection. Post work returned same day received.

You need Super-Service for the Coronation and throughout 1953.

STOCKWELL PHOTO-SERVICE

2 St. Michael's Road, S.W.9
Brixton 5441 (five lines)

Telephone: Bradford 28237/8/9 Telegrams: Broparco, Bradford

BROOK PARKER & CO. LTD

Manufacturing Chemists

Horton Road
BRADFORD

Wholesale Suppliers of Photographic Sundries, Chemicals and Photo-Electrical goods to the Trade.

Sole Distributors of
'CENEIPLAN' Continental Colour Filters

Principal Agents for the
FINETTA CAMERA and all HAYNOR SPECIALITIES

'AICO' BALL and SOCKET HEAD

Precision made from Dural and Nickel-plated Brass.

1 in. diameter base.

Light, Compact, but Sturdy.

12/11 each.

Standard English Thread.



'POLLUX' RANGEFINDER

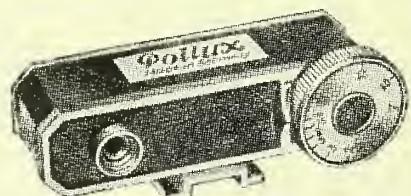
With Adjustable Infinity setting,
Reliable—Clear—Correct

39/9 each.

(Scaled in feet
or metres.)

Leatherette
cases 6/5 each.

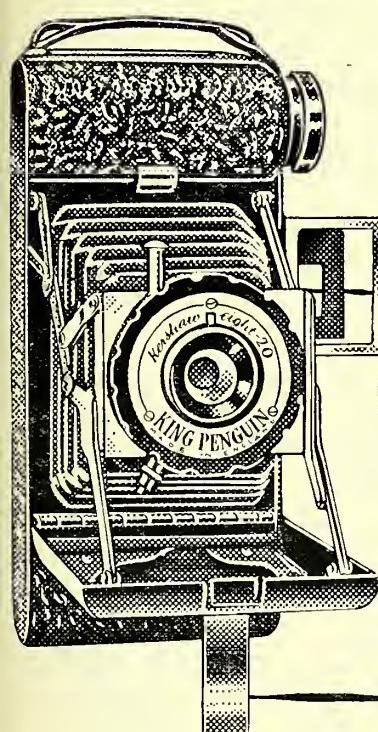
One year's
written
guarantee.



APPARATUS AND INSTRUMENT CO., LTD., 15 SHEEN LANE, LONDON, S.W.14

Phone: PROspect 2885—2202

Kershaw for the Coronation



All over the country, people are planning to see and snap the nation-wide celebrations. Check your stocks of popular-priced Kershaw Binoculars and Cameras and be ready to meet an overwhelming demand in this Coronation Year.

KERSHAW King Penguin - $3\frac{1}{4}'' \times 2\frac{1}{4}''$ Folding Camera

Ideal for snapshots of the Coronation and local Pageants. Order now if stocks are low.

Synchronised for flash • Direct vision viewfinder • Fully self-erecting
Leather-covered Body • Tripod Bush

The finest camera in its class - £5.8.2 INC. P.T.

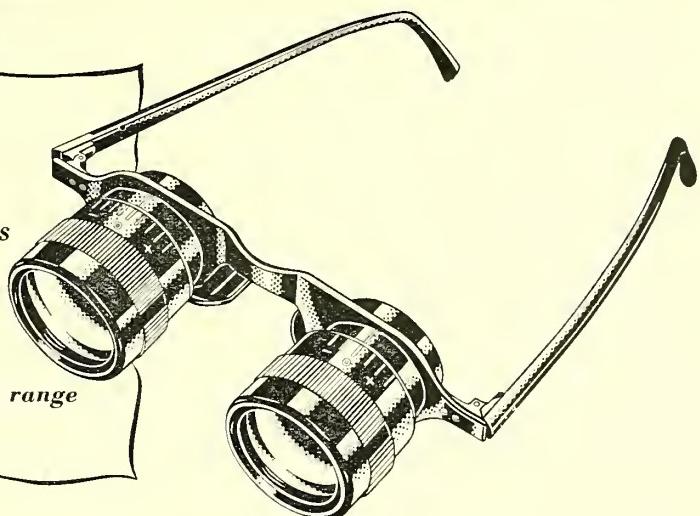
KERSHAW

Sportsman

Spectacle Binoculars

for "front row" views of Coronation
celebrations, leaving both hands free.

*Write today for details of the Kershaw range
of precision-made Binoculars.*



KERSHAW-SOHO (SALES) LTD.

Dept. CD 3 53, Mortimer House, 37-41 Mortimer St., London, W.1.

A subsidiary of British Optical & Precision Engineers Ltd. BOPE within the J. Arthur Rank Organisation.

A QUALITY FIRST DEVELOPING & PRINTING SERVICE

is essential to ensure the maximum turnover from your Photographic Department.

- FIRST CLASS WORK
- SPEEDY DELIVERY
- RELIABILITY

are the characteristics of our service which has substantially increased the D. & P. turnover of our friends.

We shall be happy to help you too.

Service by post everywhere. Delivery throughout Thanet.

BROADSTAIRS PHOTO WORKS LTD.
13-15 VICTORIA ROAD, RAMSGATE

Telephone : Thanet 52035

THE WORLD'S GREATEST BOOKSHOP

FOYLES
* * FOR BOOKS * *

All new Books available on day of publication. Second-hand and rare Books on every subject. Stocks of over three million volumes.

Subscriptions taken for British, American and continental magazines ; and we have a first-class Postal Library.

LARGE DEPARTMENT FOR MEDICAL BOOKS.

119-125 CHARING CROSS ROAD, LONDON, W.C.2

Gerrard 5660 (16 lines) ★ Open 9-6 (Thur. 9-7)

Two minutes from Tottenham Court Road Station

REFLEX
CAMERA

MIRRORS



RE-SILVERED
by Return of Post
RE-ALUMINISED
In 2 to 3 Days

Send unmounted Mirrors
only and pack securely

GOWLLANDS LTD

MORLAND ROAD
CROYDON • SURREY

Over half a century's experience of
Mirror manufacture

FILMS

Although short dated and slightly out of date ALL THESE "GUILLEMINOT" FILMS ARE FULLY GUARANTEED for 6 months from date of purchase.

127, 3 for 3/- (10/6 doz.), Pan or Chrome; 120, 2 for 2/9 (14/9 doz.), Panchromo only. 620, 2 for 2/9 (14/9 doz.), Pan and Chrome. 116, 2 for 2/9 (14/9 doz.), Pan and Chrome. 35 mm. (with cassette), Panchromo, 4/9 each (48/- doz.). Special Terms for large quantities. All orders Post Free. Cash or Cheque with order. C. & G. S. TRADING COMPANY, Drighlington, Nr. Bradford, Yorks. Tel.: Drighlington 371/2

CAMERA REPAIRS

New Bellows Fitted, Adjustments, Synchronisations also
NEW SHUTTERS, LENS HOODS, DISHES, BELLOWS,
BLIND CLOTH, BACKGROUNDS, Etc.

THE ALTRINCHAM RUBBER CO. LTD.

THE DOWNS, ALTRINCHAM

Phone : ALT. 0184

RAJAH N° 6

WHY SAY "THESE FILMS ARE NOT MADE NOW"—
SELL MY SPOOL ADAPTOR FOR 2/6 AND A ROLL OF
ANY 120 FILM. NO FITTING NEEDED AND CAN BE
USED FOR HUNDREDS OF ROLLS. 1 DOZEN ADAPTORS
AND FREE 3 COLOUR SHOWCARD FOR 20/- POST PAID
HAROLD GODFREY, M.P.S., HORSEFERRY ROAD, WESTMINSTER, S.W.1



Attractive leaflets in colour, with each camera illustrated and fully described, are available to stockists. If you are not on our books write, and we will have a representative call.

THEY WILL SELL ... if you will STOCK

A FINE RANGE OF NEW HUNTER CAMERAS

Best in value—Best in performance—and easily the best of the Coronation Year cameras. Undoubtedly, in this festive year, the demand for good cameras will be greater than ever. Millions of photographers will be told about the Hunter Range of Cameras in constant and attractive advertising. ALL YOU HAVE TO DO IS TO STOCK AND DISPLAY THEM.

SOLIDA III Handsome, compact and robust, it takes 12 pictures, $2\frac{1}{4}$ in. \times $2\frac{1}{4}$ in., on 120 Rollfilm. Schneider-Radionar f/2.9 lens, Prontor 'S' shutter, 8 speeds 1 sec.-1/250th. Built-in optical viewfinder.

SOLIDA JUNIOR The baby brother of the Solida III, takes 12 pictures, $2\frac{1}{4}$ in. \times $2\frac{1}{4}$ in., on 120 Rollfilm. Fitted with f/3.5 Franka Anastigmat lens, Vario Shutter, Speeds 1/25-1/200th.

PANTA A winner for 1953. Giving eye-level quick action photography. 12 pictures, $2\frac{1}{4}$ in. \times $2\frac{1}{4}$ in., on 120 Rollfilm. Equipped with f/2.9 Steinar lens, Prontor 'S' Shutter, speeds 1 sec.-1/250th.

PERLUX The best 35 mm. camera on the market in performance and price, giving 36 exposures on 35 mm. film. Fitted with f/2.8 Kataplast lens, Prontor 'S' Shutter, Speeds 1 sec.-1/300th. Built-in optical viewfinder.

GUGO II The finest value for money amongst miniature cameras. Takes 12 pictures, $2\frac{1}{4}$ in. \times $2\frac{1}{4}$ in., on 120 Rollfilm. F/4.5 Kesov Anastigmat lens, Vario Shutter, Speeds 1/25-1/200th.

GUGO I A less expensive edition of the Gugo II with f/7.7 coated lens, Gauthier Shutter, Speeds 1/25-1/75s.

ROLFIX A versatile folding camera giving two picture sizes, $8\frac{1}{3}$ in. \times $2\frac{1}{4}$ in. or $12\frac{1}{2}$ in. \times $2\frac{1}{4}$ in. F/4.5 Radionar lens, Prontor 'S' Shutter, Speeds 1 sec.-1/250th.

BONAFIX A medium price folding camera taking 2 picture sizes as the Rofix. F/4.5 Radionar lens, Vario Shutter, Speeds 1/25-1/200th.

GILBERT The new British all metal square camera, giving 8 pictures, $3\frac{1}{2}$ in. \times $2\frac{1}{4}$ in., on 120 Rollfilm. Has speeds of 1/30 and 1/50 with apertures of f/11 and f/16. Its robust construction ensures a lifetime of good service.



R. F. HUNTER LIMITED

"CELFIX HOUSE," 51 GRAY'S INN ROAD, LONDON, W.C.1

Phone Holborn 7311/2



CENTENARY 1845-1945



"Eagle" Brand Chemicals

• PHOTOGRAPHIC

H Y P O
AND
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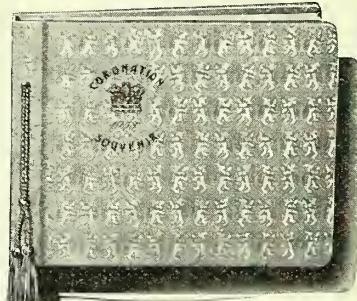
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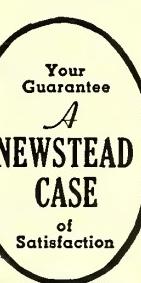
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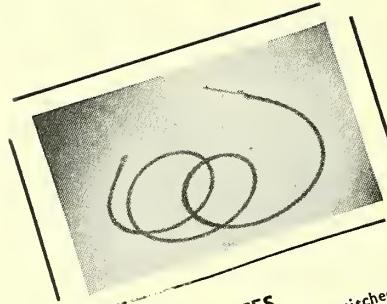
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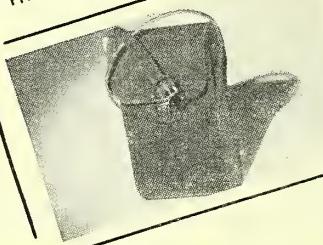
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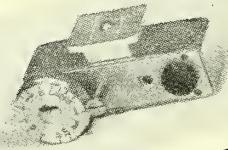
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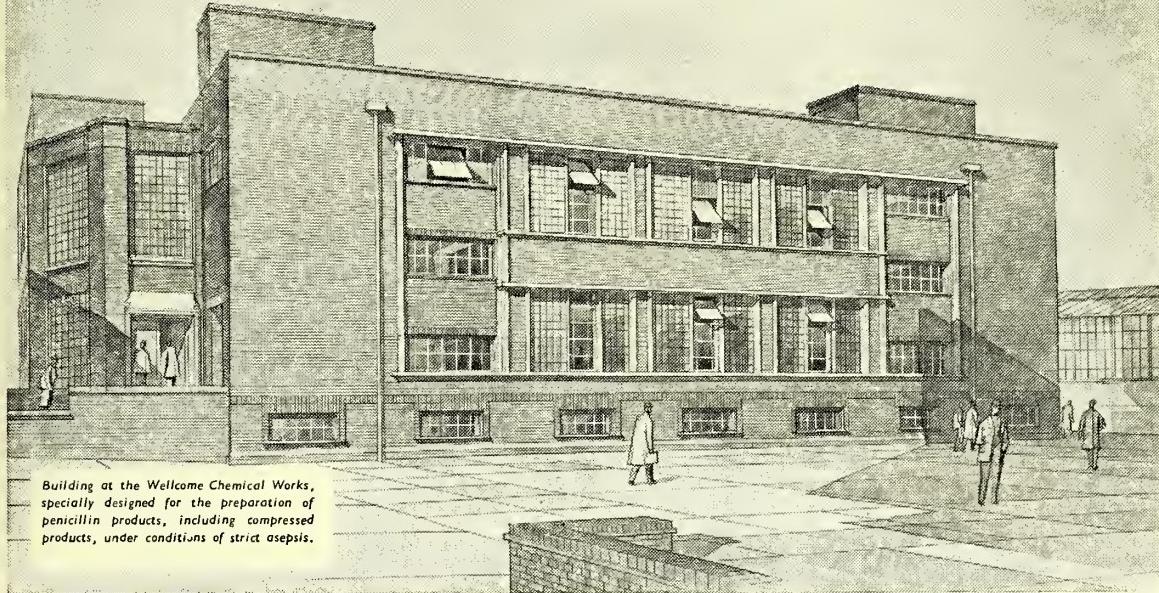
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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 159

March 14, 1953

No. 3812

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CHEMIST AND DRUGGIST

Volume 159

MARCH 14, 1953

No. 3812

N.P.U. Executive

NOMINATIONS INVOLVE FOUR CONTESTS

THE following have been nominated for election to the Executive Committee of the National Pharmaceutical Union for 1953-54:—

DIVISION

North-western 1

H. FLETCHER, Preston.
F. SMITHSON, Preston.
P. VARLEY, Blackpool.

North-western 2

H. STEINMAN, Manchester.

North-western 3

W. J. TRISTRAM, Liverpool.

North-eastern 1

G. H. M. GRAHAM, Newcastle-on-Tyne.

North-eastern 2

T. HESELTINE, Normanton.

North-eastern 3

E. A. BROCKLEHURST, Hull.

Western 1

G. H. HUGHES, Colwyn Bay.

Western 2

G. T. M. DAVID, Swansea.
T. P. MARTIN, Cardiff.

Western 3

L. H. TEARE, Smethwick.

Eastern 1

A. LIVESLEY, Chesterfield.

P. D. J. SPAANDERMAN, Huthwaite.
R. B. WILLIAMSON, Ilkeston.

Eastern 2

H. P. COULSON, Cambridge.

Eastern 3

S. J. STEARN, Ipswich.

Southern 1

G. H. GOODWIN, Bexhill-on-Sea.
D. W. HUDSON, Hove.

Southern 2

W. T. REES, Cheltenham.

Southern 3

H. HOLMES, Torquay.

Metropolitan (Three members)

A. ALDINGTON, London, N.15.
H. G. MOSS, Feltham, Middlesex.
F. G. WELLS, London, W.7.

Contests are called for in the North-western 1, Western 2, Eastern 1 and Southern 1 Divisions. The last date for ballot papers to reach the office of the Union is March 23.

vice commenced and terminated; name of the railway station from which the ticket is required and fare from that station to London; and a brief statement of the applicant's career, including qualifications and the dates on which they were obtained.

5. Each application must be supported by a letter of recommendation from the secretary of the Branch of the Pharmaceutical Society to which the applicant belongs, or the head of the pharmacy department of a college or school, or a responsible officer of the organisation in which he is employed, confirming that the applicant complies with the above conditions.

Every applicant will be advised of the result of his application as soon as possible after receipt, so as to enable him to make any necessary holiday arrangements. Successful candidates must arrange their own accommodation. Railway tickets will be issued shortly before the Conference, and the books of Conference tickets will be distributed in London.

WOMEN'S INSURANCE

Proposed regulations

A PRELIMINARY draft of regulations amending the regulations affecting the National Insurance of married women has been passed to the National Insurance Advisory Committee for consideration. The proposed regulations are intended to abolish the rules that a married woman with less than forty-five contributions to her credit for any contribution year cannot take into account, for sickness or unemployment benefit, any contributions she pays after the end of that contribution year until she has to her credit fifty-two employed or self-employed contributions of which at least twenty-six must be those actually paid; and that she must have at least forty-five contributions a year to her credit to preserve

PHARMACEUTICAL CONFERENCE GRANTS

Help for students and young pharmacists

THE Council of the Pharmaceutical Society has placed £500 at the disposal of the British Pharmaceutical Conference Executive for use in furthering the work of the Conference during 1953. The Executive has decided to use the money to encourage the attendance at the 1953 meeting of young pharmacists and research workers. Applicants who comply with the requirements set out below will be given one full book of Conference tickets and one third-class return railway ticket to London from the station nearest the applicant's usual residence.

1. Applicants must be pharmacists, or other members of the British Pharmaceutical Conference except student associates with no scientific degree or similar qualification who without this assistance would be unable to attend. Applications may be sent in by students who will be taking during the summer an examination which, if they are successful, would bring them within the above categories, but any award will be subject to the applicant's passing the examination before the Conference.

2. Applicants must be under twenty-seven years of age on August 31, except that, for those who served in the armed Forces, the age limit will be extended by the period of such service.

3. Applicants must not have received an award on more than one previous occasion.

4. Applications must be sent to the Secretaries, British Pharmaceutical Conference, 17 Bloomsbury Square, London, W.C.1, so as to be received not later than July 18. They must give the following information:—Full name; date of birth; dates on which national ser-



WORKS VISIT: Twenty-five members of the Romford and District Branch of the Pharmaceutical Society visited the Greenford plant of Glaxo Laboratories, Ltd., on February 26. They were received by Mr. L. F. Kitch, M.P.S., and toured the premises, including the pharmacy unit of the research division and the streptomycin filling hall, where they were able to watch the drug being prepared under sterile conditions. Afterwards they were entertained to tea.

her right to pay contributions when she is non-employed. The Committee is considering written representations sent before March 31 to their Secretary, 10 John Adam Street, London, W.C.2. Copies of the proposed regulations are obtainable from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price 4d.

SHOPWORKERS' UNION

Motions on Wages in Pharmacy

THE Union of Shop, Distributive and Allied Workers, at its seventh annual delegate meeting in Scarborough, April 5-7, will debate resolutions instructing the executive to negotiate a rate for pharmacy warehousemen that takes into account their duties in handling poisons, Dangerous Drugs, etc., and to see that in all future negotiations wage increases on co-operative agreements are retrospective to the date of increases effected under the National Joint Industrial Council for Retail Pharmacy.

INFLUENZA EPIDEMIC

The corner turned

DEATHS from influenza in the 160 great towns of England and Wales during the week ended February 28 numbered 314 compared with 521 in the previous week. The Ministry of Health thinks that the drop should mean that the peak of the epidemic has passed. The total for 1953 with that figure becomes 2,379.

APPROVED NAMES

Addition to List

THE *Chronicle of the World Health Organisation* for February 1953 includes a list of non-proprietary names approved by WHO. The list comprises all those published in THE CHEMIST AND DRUGGIST (January 10, p. 44), plus the following: Acebrochol (Latin name, acebrocholium; chemical description, acetodibromodihydrocholesterol).

LOCAL NEWS

Harrogate Branch Outing

THE Harrogate Branch of the Pharmaceutical Society held a coach outing to Scotton Banks Hospital on March 5. The party were conducted round by the hospital's medical superintendent who afterwards gave an address entitled "Some Aspects of Tuberculosis." Exhibitions were arranged in the pharmaceutical department and the pathological laboratory. Members of the party took an especial interest in the x-ray department.

Dr. H. Davis at Manchester

AT a meeting of the Liverpool Chemists' Association on February 19, Dr. H. Davis (chief pharmacist, Ministry of Health) gave an address on "Current National Health Service Topics." Mr. J. P. Murphy presiding. N.H.S. dispensing now accounted, said Dr. Davis, for 33½ per cent. of a chemist's turnover. There had been a breakdown and pharmacists had "come into their own" so far as dispensing was concerned. There was a marked improvement in the pricing position. On the

debit side, however, were a heavy increase in the cost of prescribing; the shilling levy; increased prescribing of proprietaries; and the absence of an attempt on the part of pharmacists to simplify their dispensing fees in the light of changed conditions in the past four years.

At question time a member asked if an average dispensing fee, agreed to by contractors, would make it easier for the Ministry to make reductions. Dr. Davis replied that there was scope for simplification and for the removal of anomalies. The Ministry could not cut fees without going through the "Whitley business." He agreed with another questioner that the time was not ripe for a switch-over in the Health Service to the metric system, and could not see how such a change could be made without legislation. The final question was: "Cannot pharmacists be given more hints on prescribers' habits to enable them to adjust their stocks?" Dr. Davis said that that point was being considered by the Ministry. Cost prevented the circulation of "Prescribers' Notes" to other than doctors. The publication had had a marked effect on prescribing.

IRISH NEWS

Window Competition

MANY Dublin pharmacists are taking part in an Irish Week window display competition organised by the National Agricultural and Industrial Development Association. Displays of Irish-made products are shown with decorations in the National colours.

Ulster Associates' Section

THE fourth annual dance of the Associates' Section of the Ulster Chemists' Association was held in Belfast on March 5. The chairman of the Section (Mr. J. Kerr) welcomed the guests, among whom were the president of the Pharmaceutical Society of Northern Ireland (Mr. W. H. Boyd), the secretary of the Society (Mr. William Gorman), the president of the U.C.A. (Mr. C. L. Gordon-Rattie), the chairman of the Local Pharmaceutical Committee (Mr. John McGregor), and the chairman of the Belfast College of Technology Pharmaceutical Students' Society (Mr. J. M. Smyth). During the evening a dancing display was given.

Chemists' and Druggists' Society

THE annual meeting of the Chemists' and Druggists' Society of Ireland was held in Belfast on March 4. Mr. Fred Storey was re-elected President for the thirty-fourth year, his election being moved by Mr. James Irwin, Mr. W. Doig seconded. Moving the adoption of the annual report, Mr. Storey congratulated the Pharmaceutical Negotiating Committee on their handling of the difficult problems of the Health Service. He referred with regret to the deaths of Mr. Charles Abernethy (vice-president), Mr. W. Gibson (treasurer) and Messrs. A. E. Davis and Sam Haydock. The report was seconded by Mr. Frank Boyle and approved. Messrs. H. McQuitty (secretary), D. L. McBride (treasurer) and the committee and vice-

presidents were re-elected. Mr. Storey was reappointed representative to the Belfast Chamber of Commerce.

Ulster Chemists' Association

AT the March meeting of the executive committee of the Ulster Chemists' Association, the president (Mr. C. L. Gordon-Rattie, in the chair), the response to the Princess Victoria and Flood Relief Fund was announced totalling £198, with donations still being received. The Fund is being kept open until March 14. It was decided to postpone until the early autumn, a meeting of chemists called to discuss Chemists Federation and Proprietary Articles Trade Association matters. Matters discussed included fourth-year apprenticeship and business after normal closing hours. Various price changes were approved, and accounts passed for payment. The secretary (Miss A. E. Strachan) reported that discussions had taken place between officers of the Association and representatives of Kodak, Ltd., who promised that complaints by U.C.A. members would be re-examined. Arrangements were made for a film display to be given to Kodak dealers in Belfast at an early date.

Chemists and New Shops Bill

CHEMISTS' shops are exempted from the provision of Clause 1 of the Shops (Amendment) Bill (Northern Ireland) whereby all shops, irrespective of the trade or business carried on, will close at 9 p.m. on week days. Clause 23 of the Bill proposes in the case of chemists' shops a closing hour of 6.30 p.m. The provision in existing legislation whereby persons may obtain medicines or medical or surgical appliances, etc., after the closing hour is preserved. Provision is also made for chemists' shops to remain open for the sale of or provision of medicines, medical or surgical appliances, etc., during rota hours where a National Health Service rota scheme has been approved by the Ministry of Health and Local Government. A further proposal is that any person seeking admission to a chemist's shop after the closing hour for the purpose of obtaining any medicine or medical or surgical appliance, or food or feeding appliance for an infant, or food for an invalid, may be admitted, but on any such occasion the shop shall not be kept open longer than is necessary for the purpose of dealing with the person so admitted. Exemption from section 19 of the principal Act (dealing with hours of work) is given to a chemist who is the sole chemist employed by a body corporate, or the personal representative of a deceased chemist, and who is required because of a rota scheme to be on duty on Sunday for not more than a period of two hours, and to a chemist employed other than as above who is on rota duty for not more than one period of two hours and who will not be required in the week commencing with that Sunday to be on duty either before 10.30 a.m. or after 5.30 p.m. on any day other than the weekly half-holiday. Copies of the Bill may be obtained from H.M. Stationery Office, Belfast, price ninepence.

NEWS IN BRIEF

Travellers' Schools. — An annual court of governors of the Royal Commercial Travellers' Schools is being held at St. Ermins, Caxton Street, London, S.W.1, at 11 a.m. on June 12.

Naphthalene Fire. — A fire which broke out among 700 tons of naphthalene at the Sheffield factory of the Orgreave United Coke and Chemical Co. on February 25 caused damage estimated at £60,000.

Long-service Presentation. — Mr. E. N. Dyson (senior representative of Thornton & Ross, Ltd., manufacturing chemists, Huddersfield), was presented with a gold watch on March 2, in recognition of twenty-one years' service.

Conference Contribution. — The amount of £15 collected by the National Association of Women Pharmacists at their annual dinner was for the British Pharmaceutical Conference local committee's fund and not as previously stated.

Poliomyelitis Fund Inaugurated. — A dinner was given in London on March 2 to inaugurate the National Fund for Poliomyelitis Research (see *C. & D.*, January 31, p. 110). Sir Russell Brain (president, Royal College of Physicians) addressing the gathering said that poliomyelitis research had reached a stage at which rapid expansion might lead to a great advance. It had become possible to cultivate a poliomyelitis virus; that might make possible the development of a vaccine and an effective drug.

Medical Art Salon. — Pharmacists, doctors, dentists and veterinary surgeons are invited to submit their paintings, sculptures, etc., for exhibition at the 25th *Salon de Médecines, Dentistes, Pharmaciens et Vétérinaires* at the Musée d'Art Moderne, Paris, between March 29 and April 11. Works submitted should be sent off immediately to the transport agents: Davies, Turner & Co., Ltd., 4 Lower Belgrave Street, London, S.W.1, who will forward to Paris. A ticket or label bearing the name, qualifications and address of the sender should be attached to the back of the painting, etc., which will be returned.

Purchase Tax on Advertising Matter. — The Commissioners of Customs and Excise have decided that, in future, pictorial articles which bear advertising letterpress and are for distribution gratis can be regarded as not "of a kind produced in quantity for general sale" and, accordingly, as not chargeable with tax under Group 25. Articles affected by the decision, which are within other groups will be taxable thereunder, e.g., advertising calendars and blotters under Group 34 (stationery, etc.), and articles with manipulative play features under Group 20 (toys, etc.), but posters (except poster blanks) will be free of tax. Gift pictures for distribution with goods will remain chargeable under Group 25 as being "of a kind produced in quantity for general sale," since a charge for the picture must be held to be included in the price of the goods with which it is distributed.

TOPICAL REFLECTIONS

By Xrayser

Our New *Pharmacopæia*

To add anything to your editorial comment on the new British *Pharmacopæia* (p. 237) and to Mr. T. D. Whittet's review of it (p. 240) may seem redundant. Yet a brief comment here may be of service. I fear that, in an effort to be quite up to date, the compilers of the B.P., 1953, have not escaped the risk inherent in rapid work. Only by chance can any *pharmacopæia* set forth the latest conceptions and tests in the way that a serial publication can. Though aware that the arrangement of *pharmacopæial* contents has changed more than once since 1618, I fail to see the need for the present sweeping rearrangement. Statement of doses of "all the more modern drugs" solely in the metric system, while retaining the two systems of dosage for "the older drugs," seems an arbitrary and pointless discrimination. A choice for prescribers between colchicum corm and colchicum seeds has long marked *pharmacopæial* preparations of the drug, and the change now made in the basis of its liquid extract will probably not arouse much interest. Your remarks on the substitution of Latin by English in main titles will receive considerable support. At a time when the International *Pharmacopæia* is becoming established as a means of unifying the practice of pharmacy in civilised countries, it is surely a retrograde step to relegate Latin titles to a subordinate place in an official book of reference. The standard of Latin required for prescribing and dispensing is so lenient that only sheer laziness can raise an objection to mastering the few words and phrases used. Criticism on the difficulty of Latinising some modern chemical names can be met by taking them over and making them indeclinable.

Some Branch Resolutions

The resolutions to be submitted at the Pharmaceutical Society's Branch Representatives' meeting in London on May 14 (p. 241) form a fairly interesting collection. Some are old stagers. Others are new or "as new," and are worth full consideration. There is something to be said for the demand that "Press representation at Branch Representatives' meetings should be confined to the pharmaceutical trade Press." Reporters from the outside world seldom put their emphasis on the most important items of a pharmaceutical discussion: indeed, they can hardly be expected to do so. The question, therefore, is whether imperfect or distorted publicity of this kind is better than none. Another motion calls for consideration by the Council of "the provision of club and social facilities for the benefit of pharmacists who reside in or are visiting the London area." If the demand for such facilities is likely to justify the expense, no one need hesitate to recommend it. Of the two resolutions concerning children's deaths after swallowing medicinal tablets, I prefer the one asking the Ministry of Health to issue a warning or warnings.

Architects and Shopfitters

Mr. James Grimm's third article on remodelling a pharmacy (p. 243) supplies practical hints that when adopted can make the difference between a successful and an unsuccessful piece of work. His caution on the danger of leaving everything to a shopfitter is very important. For remodelling an exterior an architect's plan is desirable: it may happen that he comes into collision with the shopfitter, but that disagreement can be settled by the pharmacist acting as umpire. As Mr. Grimm suggests, neither an architect nor a shopfitter knows "what are the problems behind the structural changes." Experience teaches that any design or scheme seen to be out of harmony with the purposes of the shop should be rejected without hesitation. To pay a fee for a drawing and to have finished with it is far better than to be saddled with a layout seen from the first to be ill adapted to one's business. The final hurdle of official sanction is an annoying addition to the responsibility of making extensive changes in a property. It is some alleviation to learn that not every part of a building is "of a licensable character."

OVERSEAS NEWS

HOLLAND

Japs Visit Factory

RECENT visitors to N.V. Chemische Fabriek Naarden, Naarden, Holland, have included the Japanese Ambassador to the Hague (Mr. S. Okamoto) and Mr. J. Asoh, Tokyo (manager of the company's subsidiary in Japan). After his visit to Holland, Mr. Asoh left for the U.S.A.

FRANCE

Deaths from Poisoned Talc

THE deaths of 152 babies in Western France recently have been attributed to the use of a talc containing arsenic. The French police were given orders to seize all samples of the talc which was made by a Bordeaux laboratory the head chemist of which has been charged with manslaughter. 752 other babies had been made seriously ill through the use of the powder.

UNITED STATES

An Antipellagra Factor

RESEARCH recently carried out at the University of Wisconsin has shown that tryptophan is effective in preventing pellagra. The investigation started from the observation that foods with a low content of niacin (considered to be the true antipellagra factor) but high tryptophan content were nevertheless fruitful in the treatment of pellagra.

Proposals for a Health Service

A PROPOSAL to establish a Government-sponsored voluntary health scheme in the United States to help people who cannot afford doctors' and hospital bills is contained in the report published on December 18, 1952, of a commission set up by Mr. Harry Truman in 1951. Under the scheme Federal and State governments would make yearly contributions, and each State would be free to participate or to stay out. Persons who could afford to do so would meet their medical bills under a "pay in advance" plan. Choice of doctor would be free. The commission suggested that the Federal government and each State should contribute \$750 millions (£267,850,000) annually.

VENEZUELA

A New Antibiotic

A NEW antibiotic, mycobacidin, has been discovered by Dr. Enrique Tejera (a Venezuelan scientist). It was so named because it is effective against mycobacteria including the causative organisms for tuberculosis and leprosy. The discovery was made in the course of investigations (directed towards discovery of new antibiotics) of soil from various regions of the country. A species of *Streptomyces* was isolated and mycobacidin was obtained from cultural filtrates of the organism.

TRIPOLI

Medical Manuscript Discovery

THE discovery in Tripoli of an Arabic manuscript entitled "Kitab al-Adwiya

al-Mufrada" ("The Book of Drugs") was announced by Dr. Tommaso Sarnelli (professor of tropical hygiene, Oriental Institute, Naples) recently. The manuscript (an undated annotated copy of the works of the twelfth-century Andalusian Arab, Abu Ja'far Ahmad Ibn Muhammad Ibn al-Sayyid al-Ghafiqi) is believed to be three centuries old. It contains lists of medicines arranged in the Moghrabi Arabic alphabetical order.

PHILIPPINES

Cortisone Precursor?

A NUMBER of native plants are being investigated by Maranon (*Journal of the Philippine Pharmaceutical Association*, 1952, 39, 268-69) for possible yield of a steroid substance suitable for use as a starting-point for the synthesis of cortisone. The plants include: *Dioscorea hispida*, Dennst., *D. alata*, Linn., *D. esculenta* (Lour.) Burkill, *Agave cantala*, Roxb., *A. sisalana* Perrine, ex Engelm., *Yucca aloifolia*, Linn., *Plumiera acuminata*, Ait., *Thevetia peruviana* (Pers.) Merr., *Ceiba manghas* Linn., *Nerium indicum* Mill., *Strophanthus cumingii* A. DC., *Antiaris toxicaria* (Pers.) Leach.

WEST GERMANY

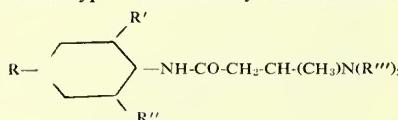
Proposed New Degree

THE Faculty of Medicine of the Free University of Berlin (Western Sector) has submitted an application to the West Berlin Senate to consider a "Dr. rer. pharm." degree. The candidate will be required, after having obtained his ordinary licence as a pharmacist (based upon university study and passing a State examination) to study additionally certain medical subjects like anatomy, physiology and higher pharmacology. He also will have to do research work to be concluded by presenting a paper on an experimental question. The idea is to establish a closer association between pharmacy and medicine.

SWITZERLAND

A New Local Anæsthetic

THE production of a new type of local anæsthetic, for which patents are pending is announced by workers of Edward Geistlich & Sons, Ltd., Wohlhusen, Lucerne. The compounds are of a type indicated by the formula:



where R=H or alkoxy, R'=H, CH₃ or alkoxy, R''=H or CH₃, and R'''=CH₃ or C₂H₅.

AUSTRALIA

Health Service to be Started?

LEGISLATION providing for a health scheme under which all the members of a family would be entitled to medical treatment for a single weekly contribution of three shillings was due to be recently introduced into the Australian Federal Parliament. The Austra-

lian Health Minister (Sir Earle Page) has stated that the Government would not pay the full costs because it was believed that that might "encourage abuse by malingerers." The scheme was intended to cover 700-800 different forms of medical treatment. He hoped the scheme would be in operation by May 1.

New South Wales Poisons Bill

THE most important outcome of proposed legislation now before the New South Wales Parliament would perhaps be the setting-up of a Poisons Advisory Committee. The Committee would consist of twelve members, four representing the Government, two the University of New South Wales, and one each the British Medical Association (Australian section), Pharmacy Board, Sydney Chamber of Commerce, New South Wales Chamber of Manufacturers, agricultural and pastoral interests, and the Dental Association. The Board would have authority to recommend the Minister to alter or repeal any regulation under the Act or to amend the Poisons List (a draft of which it has to submit to the Minister). It would have the duty of advising the Minister generally on poisons law matters. The Minister for his part would be obliged to inform the Committee of modifications he proposed to make to the Poisons List before confirming it, and to give the Committee the opportunity of making observations on the modifications, which he would have to consider. The Poisons List is to be divided into three schedules: Poisons (in three groups); poisonous substances; and "restricted" drugs.

The Bill would provide for poisons to be sold by doctors, pharmacists, or licensed retailers whose shops are at least four miles from a pharmacy, and makes provisions concerning the marking of containers, poisons book entries, sales by correspondence, telegram, radiogram, etc. It is modelled on the Victoria Poisons Act, 1928, and repeals the New South Wales Poisons Act, 1902.

SOUTH AFRICA

Non-European Training Scheme

THE South African Minister of Health (Dr. K. Bremer) told a quarterly meeting of the South African Pharmacy Board held in Cape Town on January 27 that the South African Government intended that there should be more Non-Europeans. Courses for training them were being planned, but before they were started provision for a two-year training period for those chemists at hospitals (if possible, Non-European hospitals) should be made.

CANADA

Manufacturers Honour Doctor

THE medal of honour of the Canadian Pharmaceutical Manufacturers' Association has been presented to Dr. T. H. Routley, Canada (consultant general to the council of the World Medical Association).

LEGAL REPORT

Chloramphenicol in Britain.—A dispute affecting the manufacture of chloramphenicol in Britain was heard in the Queen's Bench Divisional Court on March 10. Parke, Davis & Co., the U.S. company which holds patents in Britain for the manufacture of the substance, asked the Court to prohibit the Comptroller-General of Patents and Designs from proceeding with an application by The British Drug Houses, Ltd., for a compulsory licence to enable them to manufacture chloramphenicol. Messrs. Parke, Davis contended that, under the provisions of the International Convention for the Protection of Industrial Property, ratified by Britain in 1938, no application for a compulsory licence could be made within three years of the grant of a patent. Since three years had not expired, they claimed that the Comptroller-General had no jurisdiction. Mr. D. N. Pritt, Q.C., for Messrs. Parke, Davis, said that an application for a compulsory licence could be made after three years on the grounds of failure to work an invention, demands not being met on reasonable terms or commercial working being prevented by importation. The Patents Act, 1949, provided that no order should be made that would be at variance with any treaty of convention between the United Kingdom and other countries. The International Convention gave countries the right to take legislative measures to prevent abuse of the exclusive possession of a patent. Article V stated:—

"In any case, an application for the grant of a compulsory licence may not be made before the expiration of three years from the date of the issue of the patent, and this may only be granted if the patentee is unable to justify himself by legitimate reasons."

Mr. Pritt read an affidavit by Mr. L. O. Smith (manager of Messrs. Parke, Davis' European interests and of their subsidiary, Parke, Davis & Co., Ltd., Hounslow). The affidavit stated that, after considerable research, Messrs. Parke, Davis had invented a process for the synthetic manufacture of chloramphenicol, marketed under the trade mark Chloromycetin. Patents had been obtained in the United States and Britain. The company manufactured chloramphenicol in Britain under those patents, and did not import from America. Applicants had spent much money on their factory at Hounslow and would suffer great damage if a compulsory licence were granted to the B.D.H., who were their competitors. The Attorney-General (Sir Lionel Heald, Q.C.), for the Comptroller-General, submitted that the application for an order of prohibition was not the correct legal procedure. For The British Drug Houses, Ltd., Sir Hartley Shawcross, Q.C., argued that the restrictive three-year period under the convention did not apply in the case of foods or medicines. It would be an astonishing result, he said, if the public were to be deprived for three years of a cure for a terrible disease because the patentee could not or would not exploit it adequately in this country. Article V was intended only to deal with abuse of monopoly, and not to

prevent a State from dealing with matters of paramount public interest which came before the rights of any patentee. The hearing was adjourned.

DEATHS

DAVIS.—Recently, Mr. Arthur Edwin Davis, aged eighty-one. Mr. Davis qualified as a Chemist and Druggist in 1893, and had been in business in Dale Road, Matlock, Derbyshire, for fifty years until his retirement in 1945.

FORD.—Recently, Mr. William Ford, M.P.S., High Street, Lydd, Kent, aged seventy-eight. Mr. Ford had practised as a dentist at Lydd, New Romney, for many years. He was co-opted a member of Lydd town council in 1940, and in 1945 and 1949 both he and his wife Mrs. Ford were elected to the council.

GALLAGHER.—In Jervis Street nursing home, Dublin, on March 2, Mr. William Gallagher, M.P.S.I., aged forty-nine. Mr. Gallagher was a native of Derry city and served his apprenticeship there with Mr. J. F. O'Donnell. He qualified in 1927, and from 1931 carried on his own pharmacy at 2 North Strand, Dublin. In addition he was dispensing chemist at Church Road, East Wall Dispensary. During his early years in pharmacy, Mr. Gallagher represented Derry in Inter-county Gaelic football. He later played amateur soccer for Derry and Coleraine, and during his student days in Dublin played for Ireland against Scotland in intermediate soccer. He is survived by his widow and three children.

GRAYSON.—On February 21, after an operation at Boscombe Hospital, Bournemouth. Mr. Joseph Grayson, M.P.S., 30A R. L. Stevenson Avenue, Westbourne, Bournemouth, aged seventy-eight.

HOLDEN.—On February 22, Mrs. Kathleen Faith Holden, M.P.S., 6 Camden Crescent, Bath. Mrs. Holden qualified in 1924.

HUDSON.—At Glasgow, on February 13, Mr. Sutherland Hudson, M.P.S., Craiglee, Bonhill Road, Dumbarton, aged eighty-three. Mr. Hudson, who qualified in 1891, had been in business in High Street, Dumbarton, for many years before retiring.

LEIGH.—At Dover, recently, Mr. Harold Malcolm Leigh, aged ninety-six. Mr. Leigh qualified as a chemist and druggist in 1880 and was one of Dover's oldest townsmen and the town's oldest Freeman. He was apprenticed in Dover and recalled that he used to work eighty hours a week, from 7 a.m. to 8 p.m., and 10 p.m. on Saturdays. He served as borough collector of rates, and for many years in his retirement assisted local chemists gratuitously with locum work.

MACMAHON.—Recently, Mrs. Annie MacMahon (wife of Mr. Eugene MacMahon, M.P.S.I., managing director of Lilmar Pharmaceuticals, Ltd., Dublin).

MAUNDRELL.—Recently, Mr. Henry Tuckey Maundrell, M.P.S., 26 Bordon Lane, Sittingbourne, Kent, aged eighty-five. Mr. Maundrell was in business as a chemist and druggist at

King Street, Milton, nr. Sittingbourne, from 1893 until he retired in 1932. He did locum work locally up to his eightieth year.

OLIVER.—At Hawley Sanatorium, Barnstaple, Devon, on February 27, Mr. John James Oliver, M.P.S., Rockdale, Combe Martin, Devon. Mr. Oliver qualified in 1903.

PRATT.—On February 26, Mr. Charles Andrews Pratt, M.P.S., whose address in the register of Chemists and Druggists is 24 Lawns Avenue, Eastbourne, aged seventy-nine.

PERSONALITIES

MR. GORDON SMITH (secretary, Association of British Pharmaceutical Industry) is the author of a letter published in the *Times* on March 11, in which he points out that of Britain's National Health Service bill of £470 millions, the total amount received by pharmaceutical manufacturers amounts to only £30 millions.

MR. PAUL HODGKINS who was recently appointed a director of Genatosan, Ltd. (see

C. & D., February 21, p. 182) joined the company as marketing manager in 1951. Mr. Hodgkins served in the Royal Artillery and on the staff of G.H.Q. in India during the 1939-45 war. In 1948 he was appointed head of the marketing research department of Thomas Hedley, Ltd., Newcastle, by whom he was employed before the war.



MR. L. O. SMITH (general manager of the European branch of Parke, Davis & Co., Ltd.) is leaving Britain for South Africa by air on March 14. He is visiting business friends, distributors and representatives of the company in Johannesburg, Durban, Port Elizabeth, Cape Town, Lourenço Marques and Bloemfontein before returning on April 3.

DR. W. A. R. THOMSON (head of the medical department of Boots Pure Drug Co., Ltd.) is leaving the company shortly to take over the editorship of the *Practitioner*. He is succeeded by Dr. J. R. F. WILLIAMS who joined the company in 1948 as assistant to Dr. Thomson. Dr. Williams was educated at Epsom College and qualified at St. Thomas's Hospital, London. He took his M.R.C.S. and L.R.C.P. in March 1943 and his M.B., B.S., in May of the same year. After qualifying, Dr. Williams was for a time house officer to Dr. Reginald Hilton and Sir Henry Tidy at St. Thomas's Hospital and then became senior medical officer at the Claybury Emergency Hospital, Woodford Green, Essex. He became an M.R.C.P. early in 1945 and subsequently joined the Forces, where he served with the Middle East Land Force in Egypt, Palestine, Greece, Malta and Cyprus.

COMPANY NEWS

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Sir Arthur Smout retired from the board on February 28.

BOOTS PURE DRUG CO., LTD.—Mr. J. E. Greenwood (joint vice-chairman) has resigned from the board owing to ill-health. Mr. F. A. Cockfield has been appointed to the board from April 1.

HICKSON & WELCH (HOLDINGS), LTD.—Net profit for year ended September 30, 1952, was £49,427. A final dividend of 4½ per cent. making 7½ per cent. for the year is proposed.

PETROCHEMICALS, LTD.—A loss of £1,339,340 was incurred in the year ended June 30, 1952 (against a previous loss of £986,063). Debit balance to be carried forward by parent company is now £3,371,526. The managing director (Mr. G. H. Owtram) points out that £900,000 of the net loss represented interest charges and depreciation. Since June 30, 1952, the company had brought down stocks from the balance sheet figure of £1,444,000 to £974,000 and had sold all their output.

LAPORTE CHEMICALS, LTD.—The board has decided that the company should be turned into a holding company. A new subsidiary is being formed under a similar name and this will take over from that company the whole of the manufacturing business, including the factories and properties at Luton and Warrington, in exchange for shares in the new subsidiary. The holding company will then have four subsidiaries, the new Laporte Chemicals, Ltd.; Laporte Acids, Ltd.; National Titanium Pigments, Ltd.; and the Australian subsidiary, Crystal-Laporte Pty, Ltd. The chairman (Mr. L. P. O'Brien) states that it is necessary for the reorganisation to take place during the present financial year of the company, since it is probable that taxation disadvantages would occur if it were undertaken later.

New Companies

P.C. = Private Company; R.O. = Registered Office

JAMES HAYHURST & SON, LTD. (P.C.)—Capital £5,000. To acquire the business of a dispensing chemist carried on by James Hayhurst, M.P.S., at 6 Market Street, Nelson, Lancs. James Hayhurst and Dorothy Hayhurst, subscribers. First directors are to be appointed by the subscribers.

D. M. JENKINS (CHEMISTS), LTD. (P.C.)—Capital £100. To carry on the business of manufacturing and dispensing chemists, etc. David M. Jenkins, M.P.S., Catherine M. Jenkins, and William A. Jenkins, directors. R.O.: Gaisford House, Laugherne, Carmarthens.

VCA PHARMACEUTICALS, LTD. (P.C.)—Capital £500. To carry on the business of manufacturers of and dealers in all kinds of chemicals, surgical goods and appliances, etc. Martin L. Daniels and Sidney M. Cook, subscribers. First directors are to be appointed by the subscribers. R.O.: Kirkewhite Street, Nottingham.

Bankruptcy

LACK of capital and too-high overheads were given as the main causes of failure of Arthur Mills, M.P.S., 28 Boroughgate, Appleby, Westmorland, at his public examination in bankruptcy at Kendal on February 23. The statement of affairs filed showed gross liabilities of £6,354 and a deficiency of £1,310. During the examination Mr. Mills said he purchased the business in 1948 for a total of £4,000, including the property (£2,000), stock (£500) and goodwill (£1,500). He mortgaged the property with the vendor agreeing to pay 5 per cent. interest and repay-

ments of £100 per year. He increased the turnover of the business from about £2,200 a year to £4,723 for the year ended March 1950. He agreed that the turnover for the twenty-one months to the date of the receiving order in January was £8,921; gross profit £1,107; drawings, £1,181. From March 1952 he supplied drugs at cost to his wife and father-in-law who opened a drug store at Brough, a neighbouring township. He had hoped that he would ease his difficulties. In June 1952, creditors started pressing and in December, Bleasdale, Ltd., who had a £793 debt, sent their accountants to Appleby. He first realised he was insolvent after their visit. The examination was closed.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE Therapeutic Substances (Prevention of Misuse) Bill received its third reading in the House of Lords on March 3.

Tax on Photographic Equipment

MR. A. BLENKINSOP asked the Chancellor of the Exchequer on March 3 whether he would reduce the purchase tax on photographic equipment in view of the "serious handicap which the present tax imposes on this useful hobby."

MR. JOHN BOYD-CARPENTER replied that note had been taken of the suggestion.

Drug Tariff and Dispensing

During a Lords' debate on the National Health Service on March 4, LORD SALTOUN raised the question of prescriptions. A doctor, he said, prescribed for a patient two tins of penicillin Nonad tulle dressings, which contained seventy-two dressings and cost 10s. 6d. In due course the Executive Council refused to repay the chemist on the ground that those tins of dressings were not appliances coming within the provisions of the Third Schedule to the General Medical and Pharmaceutical Services Regulations. But a chemist could not alter a doctor's prescription. He could not send his customer away empty. How could he let a patient suffer because of a thing like that? Very few chemists would let a patient suffer because of a mistake. But to get in touch with the doctor might mean a delay of three days. There should be a relaxation of rigidity in this matter, at least to the extent that if a doctor ordered something which was not in the Drug Tariff and which was more expensive than the similar article in the Tariff the chemist should be reimbursed to the amount in the Tariff.

LORD ONSLOW (Lord in Waiting) replied that he had made extensive inquiries about the Tariff. The matter Lord Saltoun had raised was already being dealt with. In a few weeks a scheme would be devised with a small enough mesh in the net to catch up those anomalies which resulted from the structure of the Tariff. The reason why the particular item which Lord Saltoun had mentioned was not in the Tariff was that it was considered that that particular size and quantity of

Cortisone and Terramycin Supplies

MR. IAIN MACLEOD (Minister of Health) told SIR THOMAS MOORE on March 5 that production of cortisone had started but output was not yet sufficient to meet current needs. Distribution was restricted to selected hospitals and he hoped gradually to increase the quantities issued. Tablets and preparations of terramycin were made in Great Britain now from material imported in bulk from the U.S.A. and were freely available for use in hospitals. "I have no knowledge of any proposal to make the drug here." One of the fundamental difficulties, he said later, was that terramycin was a proprietary American drug and therefore it was difficult for him to take action to secure its manufacture here.

BUSINESS CHANGES

PETERBOROUGH CO-OPERATIVE CHEMISTS, LTD., have opened a branch pharmacy at 25 London Road, Peterborough, Northants.

FERRO METAL & CHEMICAL CORP., LTD., have removed to Victoria House, Vernon Place, Southampton Row, London, W.C.1.

THE London office of Nylo Laboratories, Ltd., has removed to 120 Holland Park Avenue, London, W.11. All inquiries from England and Wales should now be sent there.

FRANK SIMMS, LTD., 3 Beetwell Street, Chesterfield, Derbys, have transferred their pharmacy to 124 Saltergate, Chesterfield. The optical practice of the company remains at 3 Beetwell Street.

DR. M. A. PHILLIPS & ASSOCIATES have entered into an arrangement with Archibald Raynor, analytical, consulting and research chemists, 17 Queen Street, Deansgate, Manchester, 2, by which a new firm, to be known as Harris & Phillips, has been formed. The principals are Messrs. Tennyson Harris, Ph.C., F.R.I.C., and M. A. Phillips, D.Sc., F.R.I.C., A.M.I.Chem.E.

NEW PRODUCTS AND PACKS

Hormone Elixir.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, are now issuing Mepilin in the form of an elixir, containing 3 mgm. methyltestosterone and 0.01 mgm. ethynodiol diacetate in each 60 minims.

Horticultural "Economy Packs."—Tomlinson & Hayward, Ltd., Lincoln, issue a series of "economy packs" that "bring the cost of pest control



within the reach of every gardener." A new range at half the previous price includes at present only three products, but the already popular standard Eureka "economy" packs will continue to interest amateur gardeners. They are being nationally advertised throughout the year. A free window display is offered to all stockists, and a booklet on pests and diseases for retailers to give away from their counters is in course of preparation.

Brown-black Eyebrow Pencil.—Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, have introduced brownish-black eyebrow pencil for medium-coloured lashes.

Aerated Glucose Drink.—James Whitley, Sons & Co., Ltd., Victoria Bridge, Manchester, 3, have introduced a new aerated glucosol containing approximately 25 per cent. liquid glucose for acidosis, nausea, exhaustion and shock.

Obstetric and Infant-weight Calculator.—Trufood, Ltd., Green Bank, London, E.1, have produced an obstetric and infant-weight calculator intended primarily for doctors, nurses and midwives but available also to pharmacists. A copy will be sent free on request to the company.

Vitamin Elixir.—Eli Lilly & Co., Ltd., Basingstoke, have introduced elixir Betalin-complex, containing aneurine hydrochloride, riboflavin, pyridoxine, sodium pantothenate, nicotinamide and fresh liver extract, for use in tiredness and nervous strain. The product is issued in bottles of 4, 16 and 80 fl. oz.

Restyled.—A restyled Rolls razor, the Viscount, has been introduced by the manufacturers, Rolls Razor, Ltd., Cricklewood, London, N.W.2. It will be announced to the public on April 27. The new Viscount incorporates and improves on all the features of the previous model without any increase in price. It is illustrated on another page.

A New Cleansing Cream.—International Chemical Co., Ltd., Cheneys

Street, London, W.C.1, are marketing a new Anne French cream for use in "deep cleansing" technique. It is claimed to be as effective for the normal-to-dry skin as the popular cleansing milk for the more greasy skin.

Lipstick and Nail Enamel.—Available from March 6 from Revlon International Corporation, 61 Grosvenor Street, London, W.1, are a Fire and Ice "matchbox" (with indelible creme lipstick (special size) and matching nail enamel); and (available separately) lipstick (regular or indelible creme), enamel, and frosted nail enamel.

"Meat for Babies."—Din-Din, Ltd., 5 Rampayne Street, London, S.W.1, have introduced a new Din-Din speciality based on the "revolutionary" idea of "meat for babies"—an idea that has been approved by leading children's hospitals, which find that feeding meat proteins to young children is beneficial. The product is also excellent for grown-ups. Din-din beef and liver purées are hermetically sealed by sterilisation at high temperature.

Lemon Juice.—P.L.J. (pure lemon juice with added preservative) first marketed in 1921, is now being marketed by the Pure Lemon Juice Co., Ltd., Croydon, Surrey, through chemists as well as through health food stores. It is available at less than the price of raw lemons. The product is made from fully ripe lemons and is much less bitter than juice from imported lemons. P.L.J. is intended to be taken daily, before breakfast, with warm water. The recommended quantity is a tablespoonful (equivalent to the juice of one lemon).

Vasodilator Ophthalmic Ointment.—Ciba Laboratories, Ltd., Horsham, Sussex, have introduced Priscol ophthalmic ointment, a presentation of the company's peripheral vasodilator containing 10 per cent. w/w Priscol in a special ointment base for application to the eye in the treatment of conjunctivitis and keratitis, particularly when due to chemical or thermal burns. Priscol ophthalmic ointment is intended for use in all infections of the anterior part of the eye where vasodilatation is required, and is packed in 5-gm. collapsible tubes with nozzles.

Diphtheria Pertussis Prophylactic.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the

issue of a new Wellcome brand diphtheria pertussis prophylactic to replace the product known by the letters D.P.P. The new product contains no mineral carrier, the diphtheria component consisting of purified diphtheria toxoid. The whooping-cough component, also of a new type, is prepared from freeze-dried *Hæmophilus pertussis* grown on Cohen and Wheeler's liquid medium and tested by the Kendrick intracerebral method in mice. The preparation is available in sets of three 1-c.c. ampoules.

One-piece Hearing Aid.—A new and advanced miniature one-piece hearing aid, the Bonochord Telepak, has been introduced by Bonochord, Ltd., 48 Welbeck Street, London, W.1. The instrument is cased in grey plastic that is specially friction-damped to reduce clothing noise to a minimum. Its overall size is $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{4}$ in.; its weight,



including batteries, $4\frac{1}{2}$ oz. Telepak is the first British-made aid to incorporate a circuit completely printed in silver on a ceramic base. Extremely small ($1\frac{1}{4} \times 1\frac{1}{8} \times 1/20$ in.), the circuit is proofed against heat and humidity. There are no loose components or multiple-soldered joints. The aid is fitted with a combined volume control and switch and with Filtermatic control, a method whereby, at the time of fitting, the volume and tone characteristics of the aid are made to conform closely to the requirements of the deaf person, as ascertained by audiometer and speech intelligibility tests. An externally connected pick-up enables the user to hear radio programmes without the instrument's being connected to the receiver.



A NEW DENTURE BRUSH: In the new Halex angle-head denture brush, illustrated, the probing head has been shaped to reach into every angle of even the deepest dental plate, and the handle has been designed to ensure a firm and comfortable grip.

TRADE NOTES

Utrecht Fair.—The 60th Utrecht International Fair opens on March 17. It will include exhibits of electro-medical instruments.

Extra Strong.—British Permanent Starch Co., Ltd., 87 Regent Street, London, W.1, are this year offering an extra-strong Dip at the same price.

Spun Rayon Yarns.—All types of Spun rayon yarns for bandages, lint, plasters, etc., are offered by Fine Spinners & Doublers, Ltd., St. James's Square, Manchester, 2.

Addition to List.—Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, have issued Caladryl cream, containing 1 per cent. Benadryl with calamine in collapsible tube of 1½ oz. and jar of 1 lb.

Soil-warming Unit.—An electric soil-heater for 6 ft. x 4 ft. cold frames is made by the Warm-Glow Co., Ltd., 1133 London Road, Leigh-on-Sea, Essex. It is made in 200-20-volt and 230-50-volt models, with 5-amp. 2-pin plug.

Omitted from Advertisement.—The address of James L. Hatrick & Co. (London), Ltd., which was inadvertently omitted from the company's announcement in the February 21 issue of the *C. & D.*, is 58 Britton Street, Clerkenwell, London, E.C.1.

Cinnamon Bark and other Oils.—Standard Synthetics, Ltd., 76 Glenham Road, Barnes, London, S.W.13, specialise in cinnamon bark, juniper berry, wintergreen, French lavender, terpenelless lemon and peppermint oils, perfume bases, etc.

Anæsthetics for Everest Expedition.—Duncan, Flockhart & Co., Ltd., Edinburgh, have supplied the British Mount Everest expedition, 1953, with the new local anæsthetic Xylocaine as a solution for injection, and as Xylocaine ointment, as well as a quantity of Duncan's pure chloroform.

Agencies for French Bottles.—Maurice Chevallier, 24 High Holborn, London, W.C.1, are sole export selling agents for eighty leading French glass-works, and offer bottles for the pharmaceutical trade (including "snap caps"), penicillin, serum, and tablet bottles, etc.

Agencies in Kenya.—Noorbhai and Brothers, P.O. Box 128, Mombasa, Kenya, wish to become sole agents of British suppliers of hormone preparations, ointments, toilet soaps, toilet and cosmetic products, elastic bandages, etc. They give as reference the Standard Bank of South Africa, Ltd., Mombasa.

Improved Nylon Tooth-brushes.—Spa Brushes, Ltd., Freeman Works, Chesham, Bucks, state that, although the new extra-flexible, extra-glossy Nylon (Sparklon) is being used in all Spa Nylon tooth-brushes (No. 5 spearhead and No. 4 shorthair), the retail price has not been advanced.

Closed on March 28.—Vitamins, Ltd., announce that their premises on the Thames will be closed on Satur-

day, March 28, to enable guests in the medical profession and in the pharmaceutical trade to view the Oxford-Cambridge Boat Race from the Bemax Wharf at Upper Mall, Hammersmith.

London Showroom for Display Material.—The Acme Showcard & Sign Co., Ltd., Paragon Works, Enfield, Middlesex, have opened a showroom at 9 South Molton Street, London, where examples of the company's showcards and illuminated or non-illuminated signs, some of which incorporate mechanical features, may be seen.

Fly and Moth Cards.—Silverthorn Manufacturers, Ltd., 35 College Gardens, Chingford, London, E.4, have introduced three new patterns of their Surekill DDT fly and moth card for the 1953 season. The Surekill English roses, Butterfly, and Bunny cards. Samples are available. Inquiries are specially invited from wholesalers.

"Five-day" Stick Deodorant.—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, have undertaken the distribution of Five-day stick deodorant, which contains chlorophyll with a recognised deodorising agent and anti-perspirant. The product is available in a counter dispenser containing one doz. sticks, each encased in a screw-capped metal container.

Sole Distributors.—William R. Warner & Co., Ltd., Power Road, London, W.4, announce that they are the sole distributors in the United Kingdom for the preparations of Chilcott Laboratories, Ltd. Two Chilcott preparations, Methium chloride and Peritrate (pentacyrthritol tetranitrate) are available in limited quantities. They are obtainable immediately from the company or from wholesalers.

Discontinued.—GENATOSAN, LTD., Loughborough, Leics, announce that the following items have been discontinued from their price list; all warehouse stocks are exhausted:—Genamint (30's); adrenaline hydrochloride

solution (1/100-25 mil); and Genosed.

—GLAXO LABORATORIES, LTD., Greenford, Middlesex, announce that all packs of colloidal calcium with Ostelin were discontinued on March 2.

Pancreatin Granules.—Clay & Abram, Ltd., 87 Bold Street, Liverpool, 1, are marketing enteric-coated "triple-strength" pancreatin granules, C. & A., for use in the treatment of fibrocystic disease of the pancreas. The granules are designed to replace the deficiency of enzymes and improve the digestion of food, and the pancreatin used has been standardised to possess three times the enzymic activity of the B.P. product. They are issued in bottles containing 8 oz.

Manufacture in England.—A new company (Externco Co., Ltd.), 20 Sloane Street, London, S.W.1, has been formed (see *C. & D.*, March 7, p. 230) for the manufacture and distribution of Dr. Victor Bogomoletz's preparations for the care of the skin. These products have been on the market in France for over two years and have been exported from there all over the world. It is intended that the export should now be made from England instead of France.

Expansion of Activities.—Biorex Laboratories, Ltd., 47 Exmouth Street, London, E.C.1, have extended their premises and now carry a wider range of drugs, galenicals, tablets, pills, ointments, proprietaries, patents, toilets, dressings, plasters, surgical and chemists' sundries. They have also increased their fleet of vans and can give daily deliveries to any part of the Greater London area and Home Counties. Chemists desirous of being included in a new "telephone" service will be telephoned—on receipt of instructions—by the company's telephonist on certain or every day of the week, and orders can then be placed. Instructions from the chemist as to the most convenient time for telephoning will be strictly adhered to, thus obviating any inconvenience being caused by calls coming when least required.

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for February was 196

Cost		Item	Poison Class	4 oz.	1 oz.	1 dr.
d.	per			s. d.	s. d.	s. d.
46	lb.	Acid. tartaricum ..		1 8	0 6	0 1
33	pt.	Alcohol isopropylcum ..		0 10	0 3	—
43	oz.	Aloinum ..	R only	—	—	1 0
46	oz.	Amidopyrina ..		—	—	1 0
162	lb.	Anthemidis flores exot. ..		5 9	1 8	0 3
216	oz.	Aqua rosa conc., B.P.C. ..		—	—	5 0
36	lb.	Calamina, B.P. ..		1 4	0 5	0 1
75	lb.	Cera emulsificans ..		2 9	0 9	0 2
98	4 oz.	Copaiba ..		—	3 6	0 6
87	lb.	Elixir simplex, B.P.C. ..		3 5	0 11	0 2
93	oz.	Ephedrina hydrochlor. ..	P.1 (8)	—	—	2 2
40	oz.	Iodoformum ..		—	5 10	0 10
18	lb.	Linct. simplex ..		0 10	0 3	—
120	lb.	Lin. bellad. meth. ..	S.1 (5)	5 6	1 7	0 3
48	lb.	Lin. camph. ..		1 8	0 6	0 1
105	lb.	Ol. eucalypti ..		3 6	0 11	0 2
108	oz.	Ol. pimenta Ang. ..		—	—	2 6
168	oz.	Opium pulveratum ..	D.D.	—	—	4 0
63	lb.	Potassii citras ..		2 3	0 8	0 1
268	lb.	Potassii iodidum ..		9 6	2 9	0 5
20	lb.	Syr. tolutanus ..		1 0	0 3	—
216	lb.	Tinct. opii ..	D.D.	7 6	2 3	0 4
63	lb.	Tinct. opii camph. ..	P.1 (9)	2 1	0 7	0 1
29	lb.	Ung. zinci. oxid. ..		1 0	0 3½	—
78	lb.	Vapor menthol et benzoin (meth.), B.P.C.		2 9	0 9	0 2
25	lb.	Zinci oxidum ..		0 11	0 3	—
57	lb.	Zingib. rhiz. Jam. pulv. ..		2 0	0 7	0 1

PHOTOGRAPHIC NOTES

Camera Mirrors. — The resilvering and re-aluminising of reflex camera mirrors is undertaken by Gowlands, Ltd., Morland Road, Croydon, Surrey.

Lowest-priced Miniature Camera. — The Finetta, the lowest-priced camera taking 35-mm. film, is obtainable from Haynor, Ltd., 167 Greyhound Road, London, W.6.

Camera Cases. — L. Newstead, Ltd., 9 Blackwell Gardens, Edgware, Middlesex, offer camera cases in waterproof art silk and leather. Details are given on another page.

Accessories. — Brook, Parker & Co., Ltd., Horton Road, Bradford, 1, are wholesale suppliers of photographic sundries, chemicals and photo-electrical goods; and sole distributors of Ceneplan colour-filters.

8-mm. Cine Camera. — Sole United Kingdom distributors of the Bolex 8-mm. cine camera are Cinex, Ltd., 9 North Audley Street, London, W.1. Folders, booklets and showcards are available.

Spool Adaptor. — Harold Godfrey, M.P.S., Horseferry Road, Westminster, S.W.1, offers a spool adaptor, the Rajah No. 6, which requires no fitting and can be used for hundreds of rolls. A three-colour showcard is available for orders for one doz. adaptors.

Photographic Books. — Sales in the photographic department may be increased by judicious display of photographic books. A range for all types of user is offered by the Fountain Press, 46 Chancery Lane, London, W.C.2, who invite chemists to send for a free catalogue and trade order list.

D. & P. Display Matter. — An illustrated sheet issued by W.P.F.A. (Services), Ltd., 84A North End Road, London, N.14, gives details of window pelmets, showcards, cut-outs and streamers advertising developing and printing services, en-prints, etc., issued under the auspices of the Wholesale Photo Finishers' Association.

Developing Dishes. — Enamel-steel developing dishes made to British Standards specification 1378 are manufactured by Clement Wain, Ltd., Newcastle, Staffs. Deliveries are available from stock. The dishes are enamelled white inside and out with acid-resisting enamel. Illustrated price lists are available.

Folders and Albums. — HALLFIELD PHOTOMOUNTS, Carlton Works, 81 Westgate, Bradford, invite chemists to write for prices and samples of coronation folders. — KENMORE (MERCHANTS), LTD., 34 Manchester Road, Bradford, give details on another page of their Coronation and Regina photo albums, which will have a special appeal to coronation-year customers.

"Simplest, Fastest" Camera. — On another page, Purma Cameras, Ltd., 7 Queen Street, Mayfair, London, W.1, offer a camera which they describe as the simplest and fastest at anything near the price. It has an all-metal focal plane shutter and two external controls only, with speeds of 1/500,

1/150, 1/25 and "brief time." It takes sixteen exposures on 127-size film.

"Streamlined" and Simple. — The smart appearance of the Ensign Ful-vue camera, which is modelled on the lines of an expensive twin-lens instrument, combined with its giant viewfinder, make it a ready seller among customers looking for a simple, fixed-focus camera taking twelve pictures on 120-size films. The camera is synchronised for flash. The makers are Barnet-Ensign-Ross, Ltd., E.17.

For Coronation Snapshots. — The Kershaw King Penguin folding pocket camera manufactured by Kershaw-Soho (Sales), Ltd., Dept. CD/3/53, Mortimer House, 37 Mortimer Street, London, W.1, is a popular-priced camera taking 120-size films ideal for snapshots of the Coronation and local pageants. It has a direct vision viewfinder, is fully self-erecting, and is synchronised for flash. Messrs. Kershaw also offer a range of precision-made binoculars.

A Range of New Cameras. — On another page, R. F. Hunter, Ltd., 51 Gray's Inn Road, London, W.C.1, illustrate seven cameras of which they are distributors. Among them are the Solida III and Solida Junior folding pocket cameras with built-in optical view finders; the Panta, for eye-level quick-action photography; the Perlux 35-mm.; Gugo I and II miniature cameras; Rolfix and Bonafix folding pocket cameras; and the Gilbert British all-metal "square" camera. Leaflets, in colour, are available to stockists.

Interleaving for X-ray Film. — An improved form of yellow interleaving paper for x-ray film is being substituted by Kodak, Ltd., Wealdstone, Harrow, Middlesex, for the present black paper. The new yellow paper has proved superior as a preservative covering for present-day high-grade x-ray emulsions. It contributes to the life of the film and produces less fluff and dust particles, thereby reducing the risk of possible artifacts. The yellow paper takes pencil writing and typescript more readily than the black, and individual film folders are easily seen in safelight illumination.

Cameras and Accessories. — Apparatus & Instrument Co., Ltd., 15 Sheen Lane, London, S.W.14, are agents and distributors of a variety of photographic instruments, accessories and parts, including the Photina twin-lens with self-erecting view finder, the Photavit ("the smallest precision miniature camera in the world"), taking 35-mm. film, the "climate-proof" Regula with built-in view finder, and Favor II 35-mm.; as well as the Ato precision flash gun, Combimeter IIA range-finder and optical exposure meter, Pollux range-finder, Aico ball-and-socket head, cable releases, etc.

Photographic Films. — The C. & G. S. Trading Co., Drighlington, nr. Bradford, Yorks, offer short-dated and slightly out-of-date Guilleminot films, fully guaranteed for six months from date of purchase; details are given on another page. — NEVILLE BROWN & CO.,

LTD., 77 Newman Street, London, W.1, draw attention on other pages to the advantages of selling Ferrania guaranteed films. They also illustrate two Ferrania cameras: the Elioflex reflex-type camera (twelve exposures on 120-size film); and the Ibis all-metal miniature-type camera (eight exposures on 127-size film).

Developing and Printing. — Developing and printing service by post to all parts of Britain and by delivery throughout the Isle of Thanet is offered by the BROADSTAIRS PHOTO WORKS, LTD., 13 Victoria Road, Ramsgate. — A seven-hour D. and P. service is offered on and from Easter to one London dealer by STOCKWELL PHOTO-SERVICE, 2 St. Michael's Road, London, S.W.9. — TEMPO LABORATORIES, LTD., 80 St. John's Road, Tunbridge Wells, invite trade and export inquiries for developing, printing and enlarging done in their modern laboratories. Messrs. Tempo are official trade processors of Agfacolor.

Coronation Home "Movies." — The illustration shows the technical manager of Peak Film Productions editing film at the company's premises at 171 Victoria Street, London, S.W.1. A major task of his will be the editing of some 3,000 ft. of film of the Corona-



Editing a film

tion, to be taken by the company's own cameramen, to produce two 100-ft. reels in 16-mm. and two 50-ft. reels in 8-mm. and two 100-ft. reels in 9.5-mm. The 9.5-mm. film will be in black and white only, the other sizes in colour and black and white. The films will have a souvenir pack, and publicity material including showcards will be available to retailers. Peak films have been producing films for showing in the home since 1946. Their biggest scoop was the filming of the meeting between Bernard Shaw and Danny Kaye in May 1946. Stills from that film were widely reproduced. The company specialises (in the words of Mr. J. S. Frieze, a former news editor of *Universal News*) in "live picture postcards" of Great Britain and other European tourist centres.

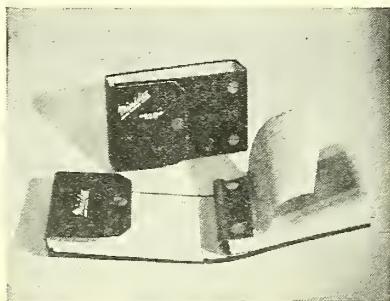
Camera Repairs. — Repairs undertaken by the ALTRINCHAM RUBBER CO., LTD., The Downs, Altrincham, include the fitting of bellows, new shutters, etc., as well as synchronisations and adjustments. — All cameras sent for repair to BOWENS CAMERA REPAIR SERVICE, LTD., 3 Albemarle Way, Clerkenwell, London, E.C.1, are acknowledged

by numbered receipt. Showcards and addressed labels are available on application.—All types of camera repairs to the trade are undertaken by C. J. MANNING, 58G Hatton Garden, London, E.C.1. — CLEMENT WAIN, LTD., Newcastle, Staffs, have for many years specialised in supplying and fitting camera bellows. Work can be completed within seven days.

Focusing Magnifier.—The Wray focusing magnifier issued by Ilford, Ltd., Ilford, Essex, gives 8 diameters magnification, enabling the amateur photographer to see and examine at least up to a standard of 48 lines per mm. on his negatives. (For comparison, a watchmaker's eye-glass permits discernment of about 20 lines per mm.) The magnifier is finished in polished aluminium and black semi-gloss enamel. The focusing adjustment (by which the instrument may be adjusted to suit individual eyesight) is provided with a knurled edge for easy grip, as is the locking ring which holds the adjustment once it has been set. The height of the magnifier is 2 in. when closed.

A New Folding Camera.—The Coronet Rapide, a new folding camera put on the market by Dufay, Ltd., Boreham Wood, Herts, is claimed to be the finest value for money on the market. It takes eight $3\frac{1}{4} \times 2\frac{1}{4}$ in. photographs on a normal 120-size film, is fitted with time and instantaneous pre-set shutter with body release, and an optical eye-level direct-vision viewfinder built into the streamlined side. The camera is of the automatic opening and closing type and has a hinged back with safety cover over the red window. Loading is simple. The lens is a British-made meniscus-type. Supplies for the home market are limited. Delivery is expected to commence during April, and orders will be dealt with in strict rotation according to date of receipt.

Photographic Supplies.—Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.1, claiming to have the largest wholesale photographic stock in



the country, invite chemists to benefit from "one order, one account, one delivery." Messrs. Fallowfield are also the source of supply of the Minidex loose-leaf negative libraries, which are available in two models of a storage album (eight negatives $2\frac{1}{4} \times 3\frac{1}{4}$ in. or twelve negatives $2\frac{1}{4} \times 2\frac{1}{4}$ in.) and two sizes of a loose-leaf album ($2\frac{1}{4} \times 3\frac{1}{4}$ in. or $2\frac{1}{4} \times 2\frac{1}{4}$ in.) complete with 120 envelopes and index.

Focus Finder.—A practical test has proved that the C. & J. Focus Finder, issued by K. G. Corfield, Ltd., Merridale Street, Wolverhampton, makes fo-

cusing on the enlarger baseboard a simple and certain process. Careful focusing can be carried out with the eye unaided, but when the focus finder is afterwards used to check the focus it has sometimes been found that it was not critical and that a further slight adjustment was needed. Essentially, the focus finder is a moulded box containing a mirror which reflects the image on to a ground-glass screen. It is understood that the finder is set to within two $1/1,000$ ths of an inch to ensure exact register.

An Improved M.Q. Developer.—Johnsons of Hendon, Ltd., Hendon Way, Hendon, London, N.W.4, are marketing a new and improved M.Q. developer: Developer 468, a powder containing developer improver 142 and wetting agent 326. The standard tin makes up a stock solution of 20 oz. for subsequent dilution 1 to 1 for contact and 1 to 3 for bromide papers. A gummed stock solution label is enclosed in the pack. The developer has been evolved to produce an intense blue-black on all types of contact and document-copying papers, and to have great exposure latitude and complete freedom from fog. It is also excellent for bromide papers and permits prolonged development without risk of stains or veiling. Time and temperature tables are given for dish and tank development. A special two-part container keeps the contents in perfect condition prior to use.

Filter Outfit.—The Minor solution filter outfit, made by Steralic Filters, Ltd., and distributed by Ilford, Ltd., Ilford, Essex, is packed in a cardboard box, and consists of a filter unit, two 20-fl. oz. bottles, and one packet of filter discs (100 papers). The unit comprises a central polyethylene tube, top and bottom metal caps with rubber washers and rubber bottle-seals, one filter disc, retaining spring, air inlet and outlet tubes and the two solution bottles. In use, the tube is filled with cotton wool, a disc is placed in position on top of a rubber washer, top and bottom caps are put in place, and the clip is sprung on to hold the unit together. The lower end (with an air inlet tube about 8 in. long) is fitted to the neck of the lower bottle, which contains the solution to be filtered. The other (empty) bottle is inverted and its neck is fitted over the end of the top cap. The whole set-up is then inverted bodily, bringing the empty bottle to the bottom, and starting the filtering by gravity. Under test, 20 oz. of developer (concentrated solution) was completely filtered in seventeen minutes.

A "Resist" for Photographic Work.—Amateur photographers who wish to carry out on their prints chemical processes such as local reduction, toning of parts of the image, or the colouring of parts of the picture by immersion of the print in dye, will find a use for Resisto, a product of Talco of Morecambe, Ltd., Talco House, Springfield Street, Morecambe, Lancs. The product is a liquid that may be applied to the surface of a print with a brush; it is easily controllable and flows readily. The resist is dry in two or three minutes, after which it affords complete protection to the parts of the image which it covers. Prints may then be immersed

in the desired solution until the wanted effect is achieved and then they can be washed—if necessary—and the protecting film of Resisto may be rolled off easily with the ball of the finger. The product has a latex base, which gives thorough protection if applied generously. The brush may afterwards be cleaned of the solution by working the bristles for a few seconds in petrol and squeezing out. Resisto is supplied in 2-oz., 4-oz. and 8-oz. jars.

"Proportioner" for Prints.—An instrument that should prove useful to any photographic chemist by enabling him to determine almost instantaneously the dimensions of any enlargement or reduction of a photograph, or of any part of a photograph, is the A.W.C. Proportioner. Suppose the required part of a picture measures, say, $2\frac{1}{8}$ by $1\frac{3}{8}$ in., and that an enlargement $7\frac{7}{8}$ in. long is needed, at once, by moving a cursor, the instrument indicates that the other dimension will be 5 in. There are no calculations to make. Two arms form a 90° angle, and on the horizontal arm there is a cursor which moves at finger pressure, the cursor being tensioned by a light spring. A diagonal arm is secured by a thumb-screw and also moves under light pressure, retaining its position when set. The arms are made of transparent plastic and are set in matt-finished brass plates. Work from 1 in. to 12 in. can be accommodated, the arms and cursor being marked off every $\frac{1}{8}$ in. in red, with 1 in. figuring. The Proportioner is packed in three quickly assembled pieces in a cardboard box. Designed by A. W. Coombs, it is obtainable without delay from Proportional Instruments, 54 Carlton Road, Walton-on-Thames.

PRICES

Harold Godfrey	Doz.
Spool adaptor ..	20 0
Johnsons of Hendon, Ltd.	
Johnson developer 468 ..	468 ..
40-80-oz. size ..	3 9
Kenmore (Merchants), Ltd.	
Photographic albums:—	
Coronation full-plate ..	15 0
Regina full-plate covers ..	10 6
doz. leaves ..	2 6
doz. interleaved leaves ..	3 6
Regina half-plate covers ..	9 6
doz. leaves ..	2 0
interleaved leaves ..	3 0
Presentation boxes also available.	
Kershaw-Soho (Sales), Ltd.	
Kershaw King Penguin folding pocket camera ..	108 2
L. Newstead, Ltd.	
Camera cases, waterproof art silk:—	
No. 69 for Kodak Duaflex	8 8
No. 70 for 620 folding ..	8 8
No. 71 for 120 folding ..	8 8
No. 75 for 620 box ..	8 8
No. 77 for 120 box ..	10 1
Newstead leather slip-in cases ..	25 5
Ever-ready cases ..	39 2
Clement Wain, Ltd.	
Developing dishes for	
plates up to $4\frac{3}{4} \times 3\frac{1}{2}$ in. ..	4 9
$8\frac{1}{2} \times 6\frac{1}{2}$ in. ..	9 3
10×8 in. ..	11 6
24×20 in. ..	51 0



FROM RETAIL TO MANUFACTURE

Growth of an Irish Industry

ADUBLIN pharmacist, Mr. Eugene MacMahon, M.P.S.I., conceived, in 1933, the idea of making powder puffs for his own retail business at Burgh Quay, Dublin, and for the trade generally. His first employees in the enterprise were two girls named Lily and Mary and taking the first two syllables in their names he coined the word "Lilmar," a trade name that came to stay. The industry, started in a back room of Mr. MacMahon's retail pharmacy, soon grew to such proportions that Mr. MacMahon's brother, Mr. Frank MacMahon, M.P.S.I., also a retail pharmacist, joined him to form the first Lilmar Company, and the manufacturing side of the business had to move into new premises at Pearse Street, and the manufacture of sanitary towels was undertaken. The business continued to increase until it became necessary to build a modern factory at Santry, co. Dublin, and the staff moved there in 1940. Now after twenty years the one-man powder puff industry of Burgh Quay has grown into an Irish pharmaceutical industry of full stature, Lilmar Pharmaceuticals, Ltd.

Range of Manufacture

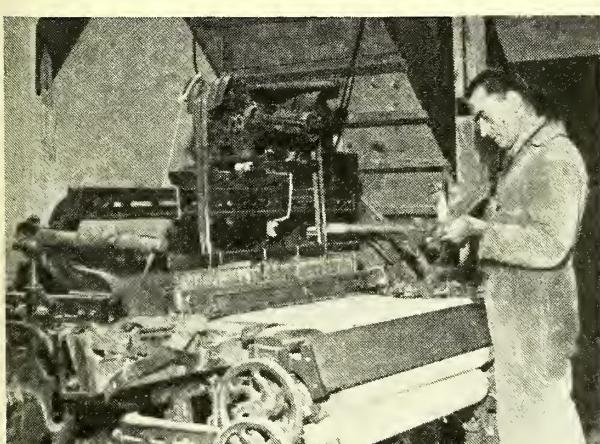
By 1942 the firm were marketing a complete range of pharmaceutical packed goods and had installed plant for making malt and cod-liver oil preparations. In recent years a big and important development has been the carding and manufacture of B.P.C. interleaved cotton wool. The company also carries on the weaving of bandage and gauze cloth. The contracts held today by the company include those for the supply of malt and oil to dispensaries

and hospitals, for the supply of surgical dressings and cotton wool to hospitals and the Irish Government Departments of Defence, and Posts and Telegraphs. Additional carding plant is being installed to cope with a growing business for dressings and cotton wool. The company's experiment in weaving B.P.C. gauze, bandage cloth and muslin has been so successful that that is to be extended.

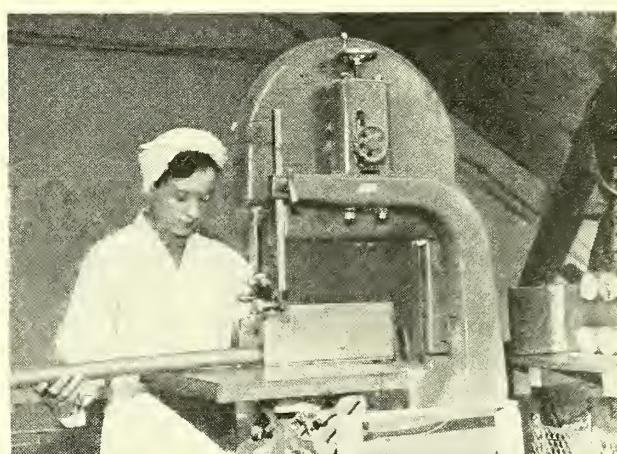
Packed Lines

Utilising modern printing and box making plant, the company offer chemists a wide range of packed lines carrying the chemists' own printed labels. Chemists who buy all their packed goods and dressings from Lilmar Pharmaceuticals, Ltd., are given a bonus at the end of each trading year. Under that scheme chemists are not obliged to buy and carry heavy stocks to secure bonus terms. The printing of chemists' stationery, including prescription envelopes, memo headings, and statement forms has become a considerable part of the work in the printing department. The company now has six representatives on the road, and its own delivery vans.

For some years now Lilmar have been the marketing agents in Eire for Potter & Clarke, Ltd., London, and for Cupal, Ltd., Blackburn. They are also sole agents in the Republic for the sale of the Dispel deodoriser made by Advance Industries, Ltd. A subsidiary company, Lilmar, Brushware, Ltd., was formed in 1952 and now carries on at Santry, in conjunction with G. B. Kent, Ltd., London, the manufacture of a range of toilet and family brushes, including a wide variety of Nylon brushes.



A gauze-weaving machine in use.



Cutting rolls of cotton wool into lengths.

BRANCH AND ASSOCIATION MEETINGS

CHESTERFIELD

Address by President

AT a meeting of the Chesterfield Branch of the Pharmaceutical Society held in Chesterfield on February 12, the president of the Society (Mr. W. J. Tristram) gave an address on "My American Journey" in which he related his personal experience of and reactions to Americans and the American way of life. £5 was raised by a collection at the meeting, for the Society's Benevolent Fund.

DURHAM COUNTY

Film Evening

A MEETING of the Durham County Branch of the Pharmaceutical Society held in Durham City on February 5 took the form of a film show. By courtesy of Evans Medical Supplies, Ltd., "Take Thou," illustrating the story of pharmaceutical manufacture, was shown, and how malaria has been eradicated from Sardinia chiefly by spraying insecticides on mosquito-ridden areas was shown in the film "The Sardinian Project." An amusing film "The Nose Has It" stressed the precautions that ought to be taken to prevent the spread of coughs and colds.

WEST LONDON

N.H.S. Rules and Regulations

THE assistant secretary of the National Pharmaceutical Union (Mr. J. Wright) addressed the Western (London) Pharmacists' Association recently on National Health Service rules and regulations. Apparently, said Mr. Wright, gelatin sponge and Oxycel were drugs and could be passed for dispensing, while sodium and calcium alginate dressings were appliances and disallowed. Any type of truss or elastic hose was allowed provided the doctor was definite in his requirement. He was hopeful that the Pricing Bureaux would catch up on arrears in about a year, and was optimistic about the outcome of N.P.U. negotiations on increased remuneration.

GLASGOW

Genetics and Health

A MEETING of the Association of Glasgow Pharmacists was held in Glasgow recently, at which DR. A. G. MEARNS (senior lecturer and examiner in social medicine at Glasgow University) gave an address on "Genetics and Personal and Social Health." Dr. Mearns said that the science of genetics began in the present century, when the work carried out by Mendel on peas was re-discovered. Chromosomes, of which the human being had forty-eight per cell, controlled racial and family characteristics. Parts of the chromosomes, called autosomes, controlled characteristics of hair, heart, liver, etc. Galton, who was a relative of Darwin, instituted the study of eugenics in 1883. In the application of eugenics, experimentation on animals was easier than on humans for breeding could be controlled. The following six criteria could be used for a long

term policy in human genetics, however: Genetic purity (pedigree); sound physique (insurance companies had gathered much information on that); good health (improved by education, legislation and the National Health Service); intelligence; love of children (affected by the housing problem and economics); and social awareness (roughly known as citizenship).

MR. J. D. Mair (a member of the Pharmaceutical Standing Committee (Scotland)) raised the question of advance payment for National Health Service dispensing for 1953. It was the opinion of the contractors present that it was still necessary to have an advance payment.

HARROGATE

Broad Spectrum Antibiotics

AT a meeting of the Harrogate Branch of the Pharmaceutical Society held in Harrogate on February 5, Dr. E. W. Tapley (Sharp & Dohme, Ltd.), gave an address on "Broad Spectrum Antibiotics." Three broad spectrum antibiotics, he said, were well established; chloramphenicol, aureomycin and terramycin. Erythromycin (isolated in 1952) might become another useful member of the series. All four antibiotics were isolated from soil organisms of the genus *Streptomyces*. The constitution of chloramphenicol, aureomycin and terramycin had been determined. Aureomycin and terramycin were closely related chemical substances; both had a four-ringed structure for

which the generic name tetracycline had been proposed. Chloramphenicol had been designated chlorotetracycline and aureomycin, oxytetracycline. The antibiotics had many common properties. Each was effective orally and all gave early blood levels fairly soon after administration. Each had a wide antibacterial range, being effective against the spirochaetes, bacteria, rickettsial bodies and some of the larger viruses. None was effective against the smaller viruses and none had a marked action on the tubercle bacillus. Each produced disturbances of the gastro-intestinal tract such as anorexia, nausea, vomiting and diarrhoea. These side-effects could be diminished by administering the drug with milk. Broad spectrum antibiotics have bacteriostatic and bactericidal properties but they act mainly by bacteriostasis. Because of their wide range of antibacterial activity they were used in a large variety of conditions but for some conditions one was better than another. They might be used against some gram-positive conditions, especially penicillin-resistant staphylococcal infections though they should not otherwise replace penicillin. They were particularly valuable in urinary tract and other gram-negative infections. Chloramphenicol was of value in typhoid fever. All forms of typhus caused by rickettsial bodies were amenable to the action of any one of them. Possibly one of the most important and commonest indications for a broad spectrum antibiotic was virus pneumonia.

LOCAL DINNERS AND DANCES

HENDON AND EDGWARE

£15 from Raffle

THE annual dance of the Hendon and Edgware Branch of the Pharmaceutical Society and of the local Association was held at Hendon, London, on February 25. About 150 persons were present. A raffle held during the evening raised £15 for the Society's Benevolent Fund.

FINCHLEY

Stag Party Raises £20

AT a recent "stag" party organised by the Finchley division, North London Pharmaceutical Association, £20 was raised for Birdsgrove House. An entertainment of musical, magical and comedy items was held. A bottle of whisky, donated by Mr. D. M. Neil, Whetstone, was auctioned during the evening.

ROMFORD

Council Co-operation

AT the annual dinner and dance of the Romford Branch of the Pharmaceutical Society held in Romford recently, Mr. W. T. Elder (a member of the Society's Council) replying to the toast "The Pharmaceutical Society," expressed the opinion that on the question of the code of ethics pharmacists conducting their business in an ordinary manner had nothing to fear. Mr. Elder was deputising for Mr.

F. C. Wilson. The toast had been proposed by Dr. S. Thompson (physician, Romford Chest Clinic). "The Branch" was proposed by Mr. R. G. Murison (chairman, Southend Branch) and replied to by the chairman (Mr. K. F. Moorey), both speakers referring to the friendliness that existed between their Branches. A raffle held during the evening raised the sum of £27 for the Benevolent Fund.

SOUTH-EAST LONDON

Benevolent Fund Contributions

THE South-east London Chemists' Association held its annual dinner and dance at Lewisham, London, recently. Mr. W. H. Green presided over a company of more than 200 members and their friends. Proposing the "Pharmaceutical Society," THE CHAIRMAN appealed for support for the Society's Benevolent Fund and said that, as the menu cards were in the form of EC10 forms, he hoped that everyone present would donate at least one shilling "levy" to the fund (£15 8s. 6d. was collected). MR. T. REID (a member of the Society's Council) replying, said that it was hoped that a home for elderly pharmacists would be opened, but all such projects depended on the financial support of Branches. "The Ladies and Visitors" was proposed by MR. D. CAMERON, and MR. WILLIAM A. STEWARD (M.P. for West Woolwich) replied.



WEST HAM JUBILEE DINNER

£100 Raised for Benevolent Fund

AT the Golden Jubilee dinner of the West Ham and District Association of Pharmacists, held in London on March 5, the record sum of £100 17s. was raised for the Benevolent Fund of the Pharmaceutical Society. Of that total, £79 11s. resulted from a collection taken after an appeal by Mr. O. C. Wombwell. MR. WOMBWELL said that West Ham had always been in the forefront with contributions to the Benevolent Fund, mainly on account of the efforts of Mr. Reed. The remainder was the proceeds of a raffle.

MR. J. Reed, president of the Association for the third time in Coronation year (the previous occasions were 1923 and 1947) was in the chair. MR. J. C. HANBURY, who proposed "The Pharmaceutical Society," ventured on

the prophecy that the next ten years would see the most revolutionary changes in the status of pharmacy, which was gravitating ever more strongly towards synthetic chemicals and antibiotics. The retail pharmacist could not hope to exercise the traditional skill of his hands. It was futile to wish to put the clock back, but the change need depress no-one. The knowledge of the pharmacist was becoming more and more important. In his reply, the Society's president (MR. W. J. TRISTRAM) announced that the Society's fund for East Coast flood victims, for which a target of £10,000 had been set, was already within a few pounds of £11,000, contributed by about 6,000 members of the Society. About thirty pharmacists affected would be able to get quick relief from the fund.

Tribute to the Association

MR. HUGH N. LINSTEAD (a secretary of the Pharmaceutical Society) proposed the West Ham Association. He said that the energy shown by the Society in its first fifty years later ran down. Its revival at the turn of the century was mainly the work of local groups, such as the West Ham Association. MR. REED responded to the toast. In fifty years, he said, there had been many changes in pharmacy. In 1900 the hours of work had been from 8.30 to 10 on five days a week, even longer on Saturdays, and with some duty on Sundays, while the salary of a qualified man had been £120 a year. Conditions today were vastly better, but were chemists any more contented? MR. ARTHUR MORTIMER proposed, and MRS. C. R. PENNINGTON acknowledged, the toast "The Ladies."

Neighbours and Visitors

Among the diners were representatives of the Western, South-western, South-eastern Metropolitan Associations, and the Romford, Walthamstow and Southend Branches of the Society. During the evening MR. J. F. MCNEAL presented Mr. Reed, on behalf of the members, with an engraved pen and pencil as a permanent memento of the occasion.



RECENT TEST PRESCRIPTIONS

IN LONDON recently no action was found necessary in the case of a test prescription for linctus codein, in which the London Executive Council's analysts could not detect syrup, tolu, and in which considerable fermentation had taken place. The independent analyst of the chemist concerned reported the presence of syrup of tolu. The Government Chemist, to whom the reserve sample was submitted, after obtaining a statement from the Council's analysts that their report had implied only that the syrup could not be detected because of fermentation, stated that there was no basis for any charge against the pharmacist.

In another case in London, recently, no action was recommended where a deficiency of 12.9 per cent. of potassium citrate in a mixture was explained by a qualified director of the business concerned as being perhaps due to the citrate being more deliquescent than was realised. The chemist in a further case was cautioned for an 11.2 per

cent. deficiency of potassium citrate in a mixture. The proprietor of the business stated that the scales on which the potassium citrate were weighed had since been found to have the agate edge broken. A faulty balance was also blamed by the chemists in the case of an excess of 62.7 per cent. of zinc sulphate in an eye lotion. A monetary penalty was imposed.

At WALSH recently a test prescription was found to be only half-quantity although all its ingredients were up to standard. The chemist concerned explained that in cases where drugs were in short supply, it was the practice to make up half measure and to ask the patients to call later for the remainder. In the test case, a relief manager did not know that adequate stocks were available. The Pharmaceutical Service Committee of the Walsall Executive Council, recommended that the Ministry of Health should warn the chemist concerned against a repetition of a breach of terms of service.

NORTHERN IRELAND HEALTH BOARD

IT was reported to the Northern Ireland General Health Services Board at its meeting in Belfast on February 25 that three pharmaceutical members of the Drug Pricing Committee (Messrs. H. W. Gamble, J. McGregor and R. Gibson) had made a three-hour examination of a comprehensive batch of priced prescriptions. In their report they agreed that there was no evidence to substantiate allegations of incorrect pricing.

The Board had been advised by the Association of British Pharmaceutical Industry that the Association had recommended its members to adopt from July 1 the system of sale by volume and the metric system for supplies of drugs and galenicals. The Board's PHARMACIST stated that the change would mean an alteration in the method of calculating the Tariff price of drugs but would not alter the actual price payable to chemists. It was agreed to draw the attention of the Ministry of Health and Local Government to the change.

A letter was received from the Ministry of Health and Local Government on the simultaneous adoption in Northern Ireland and Great Britain of changes in the List of Prescribed Appliances. The Drug Pricing Committee agreed that contractors and doctors be reminded that amendments to the List in Great Britain do not necessarily apply in Northern Ireland.

The Department of Health for Scotland, in reply to an inquiry, said in Scotland dispensing fees were not paid on stock orders for prescriptions requiring extemporaneous preparation, and the Committee decided to rescind their previous decision to pay such fees.

THE PHARMACIST was instructed to repeat to chemists the warning that containers of proprietary preparations and other preparations dispensed as received from the manufacturer should be stripped, so far as was practicable, and the chemist's own label affixed.

It was decided that the matter of the practice of doctors writing prescriptions for two or more persons on the same form should be referred to the Medical Advisory Committee with the recommendation that doctors be warned against its continuance. The Medical Advisory Committee was also recommended to circularise doctors on the necessity for putting full instructions on prescriptions, particularly when adult dosage was required for children or adult mixtures were prescribed for children.

It was recommended to the Finance and General Purposes Committee that pricers who have been efficiently pricing an average minimum of 800 prescriptions per day should qualify for a bonus of £40 per annum, and that a new basis should be worked out to apply after commencement of punch-card pricing.

It was also reported that at a joint meeting of the Medical and Pharmaceutical Advisory Committees it was agreed that the basis of remuneration of chemists for proprietary preparations was a matter for the Ministry of Health and Local Government to de-

cide, in consultation with the profession, and recommended that no further action should be taken by the Board. On the subject of dispensing by doctors the Board was recommended to consult with the Ministry as to the possibility of clarifying the basis on which the Board could require a doctor to dispense. By a majority vote it was agreed to recommend to the Board that Dettol be added to the list of substances which, being widely advertised to the public, should not be prescribed on the Board's prescription forms.

In the case of a doctor alleged to have passed prescriptions direct to a chemist (*C. & D.*, January 31, 1953), it was reported that the doctor had replied that he had never directed any patient to a particular chemist nor had

he denied any patient a free choice of a chemist. THE SECRETARY said that of the doctor's prescriptions for April 1951 and January 1952, 75 per cent. and 80 per cent. respectively had been dispensed by his brother. The Board agreed that the doctor should be asked for his further observations having regard to the high percentage of his prescriptions dispensed by his brother in those months.

Representations were considered from a local Pharmaceutical Association that as some chemists continued to provide pharmaceutical services after the normal closing hour despite the official rota service there was no necessity to continue the official service. The Board agreed that as it was essential that the rota service should continue the secretary should prepare a letter on the subject for circulation to all chemists on the Board's list.

WORLD TRIALS WITH B.C.G. VACCINE

RESULTS of studies on B.C.G. vaccine and vaccination by the World Health Organisation's Tuberculosis Research Office, Copenhagen, Denmark, were published recently. The tests involved observations on more than 40,000 children and were conducted in Denmark, Mexico, India and Egypt. They brought to light great differences in potency in preparations of the vaccine, whether from the same or from different laboratories, but attempts to trace the causes of the differences did not prove very successful. One phenomenon that was observed was that, while a completely dead vaccine produced a low level of response, the addition to it of only a small fraction of living organisms made the vaccines strongly potent. The living organisms appeared to augment the effect of the dead organisms (or vice versa), making the final reaction greater than would have been expected from adding the separate effects. So long as B.C.G. vaccine was protected from light and kept near freezing point, loss of potency was slow, but at 20°C there was a detectable loss within a few weeks. Direct daylight brought a measurable reduction within hours, and direct sunlight in minutes or seconds. A most serious problem in the trials was the unexplained failure of the vaccine in some areas to induce sufficient tuberculin allergy. Tuberculin allergy is, in fact, thought worthy of intensive study as a guide—in the absence of a direct measure of immunity—to the effectiveness of B.C.G. vaccination.

The studies were carried out principally on children aged seven to fourteen years, most of them on Danish children vaccinated with Danish vaccines, and there was no unvaccinated control group. Variations in successive batches of vaccines from the same production centre and cyclic seasonal changes reported from several laboratories are thought to be related to exposure to light. Tenfold differences in potency were seen to be possible between vaccines prepared in the same laboratory, and the relation between dose and response was not the same for all vaccines. Two vaccines could not always, therefore, be made equivalent by adjusting their content of B.C.G.

The time at which a B.C.G. culture is harvested was found to have some influence on potency, children given vaccines prepared from cultures harvested at fourteen or twenty-one days showing slightly smaller reactions than those given vaccines prepared from cultures harvested at eight or eleven days. Differences in the degree of bacterial growth in B.C.G. cultures at the time they were harvested seemed to make no difference in the tuberculin allergy after vaccination. Prolonged grinding had little effect on post-vaccination allergy with vaccine used soon after preparation, but a reduction in the size of both tuberculin reactions and vaccination lesions was found with vaccine stored for twenty-three days before use.

INQUESTS

Poisoned by Oil of Wintergreen.—A pathologist stated at an inquest at Epsom, Surrey, that the man's death had been caused by poisoning of the kidney through taking oil of wintergreen and aspirin. A doctor said that he had prescribed aspirin compound for neuritis, but did not know that his patient had taken oil of wintergreen. A verdict of death by misadventure was recorded.

Chemist Criticised.—At a Cardiff inquest on a six-months-old child on March 3, a verdict was returned in accordance with medical evidence, namely, that death was caused by the aspiration of regurgitated stomach contents due to gastro-enteritis. Evidence showed, however, that a prescription for *mistura cretae pro infantibus* prescribed for the child had been wrongly dispensed, and that in fact *mistura codeinæ pro infantibus* had been supplied. The chemist had sent his assistant to get back the bottle as soon as he had found the mistake, and had poured the contents away. A lecturer in pathology at the Welsh National School of Medicine told the coroner that the medicine had no effect on the cause of death. The coroner, addressing the chemist, said that it had been ill advised on his part to pour away the medicine returned to him.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held in London, on March 3 and 4, the president (Mr. W. J. Tristram) in the chair.

THE PRESIDENT reported with regret the deaths of Messrs. Ernest Albert Umney, D. J. Williams (*C. & D.*, February 14, p. 149; 21, p. 183; and 28, p. 207) and W. C. van Gorcum, Rotterdam (an honorary member of the Society).

THE PRESIDENT reported that the pharmaceutical flood relief fund had reached a total of £10,977, and that the total had been made up of contributions from 6,000 members. He expressed gratitude for the magnificent way members had supported the appeal. A pleasing feature had been the letters of sympathy and offers of help received from other European countries, even from some themselves affected. The financial assistance offered had not been accepted because such handsome support had come from the Society's members. MR. E. A. BROCKLEHURST suggested, and it was agreed, that a letter, written by the president, indicating that the Society was anxious to receive applications from those needing immediate help should be published. THE TREASURER (Mr. W. S. Howells) thanked the thirty-four volunteers from other departments who had come to the assistance of the finance department in dealing with the appeal.

A letter received from the clerk to the council of the School of Pharmacy, University of London, thanked the Council for their offer of an annual contribution of £2,000 a year for the quinquennium 1952-57. The council of the school agreed with the Council's suggestion that the money should be used to found a Charter Fund to which other contributions would be invited to build up an invested fund the interest of which could be used to promote research or for such other purpose as the school council might decide.

A report of a meeting of the British Pharmaceutical Conference executive stated that the executive welcomed a suggestion that a historical exhibition on the lines of that arranged by the Society during the celebration of the Pharmacy Act centenary should be organised during Conference week. The subject for the symposium session was "Containers and Closures."

The Education Committee recommended, and the Council approved, that the boards of examiners for England and Wales and for Scotland should be asked not to examine candidates upon the 1953 British Pharmacopœia before the summer examination, 1954.

Refresher Courses

The Education Committee stated that refresher courses for pharmacists would be held at Sunderland Technical College, July 6-11; and at Leicester College of Technology, July 13-18. The Education Committee authorised the Secretary to call a meeting of the heads of schools of pharmacy to be held about the middle of April.

It was reported that the reconstituted Joint Formulary Committee had held its first meeting. The members of the Committee include:—Nominated by the *Pharmaceutical Society*: Professor H. Brindle, Messrs. A. W. Bull, J. Dall, G. T. M. David, J. W. Hadgraft, D. W. Hudson, E. T. Kent, T. Reid, H. G. Rolfe, E. W. Skyrme; by the *Ministry of Health*: Sir Weldon Dalrymple-Champneys, Drs. W. P. Kennedy, H. Davis, Mr. R. Higson, Miss C. Mozley-Stark; by the *Ministry of Health and Local Government, Northern Ireland*: Messrs. J. Boyd, H. W. Gamble; Co-opted: Professor S. Alstead, Professor A. Wilson, and Mr. T. C. Denston.

The Ethical Committee considered a letter received from the Home Office concerning a two-weeks-old baby who had nearly died from the effects of an "infants' preservative," containing morphine. It was agreed to publish a reminder to members of the warning against the sale of infants' carminatives and sedatives containing morphine and to

publish a notice advising members not to supply butazolidin except on prescription. A recommendation of the Law Committee was that the Poisons Board should be asked to consider including butazolidin and "nitrogen mustards" in the Poisons List and in the Fourth Schedule.

Gifts to Birdsgrove House

The Benevolent Fund committee agreed that a gift of £10 to Birdsgrove House from the Leicester Branch should be used for the purchase of hot-water bottles and coat hangers and of £11 from the Western Pharmacists' Association to purchase luggage racks. Romford Branch was to have a small radio set or luggage racks suggested as objects on which to spend an amount of £15. The Committee approved the purchase, from a gift of £250 from the Nottingham local committee of the British Pharmaceutical Conference, 1952, of four easy chairs for the entrance hall, and asked for further samples and estimates for curtains for the hall. With a gift of £21 from the Hounslow Branch two chairs would be purchased for the small lounge.

Further Branch resolutions on the draft revised statement on matters of professional conduct were received. The Council approved final changes to be made in the statement before submission to the Branch Representatives' meeting and annual meeting being held in May. The altered document would be published and circulated to Branches during March.

The following resolutions on assistants in pharmacy were received:—

Buxton Branch: It was felt that any action in this matter along the proposed lines could not have anything but a damaging effect upon the interests of pharmacists, and that the Council be called upon to issue a further statement bringing all the facts to light so that the membership be better informed on the subject and more time given for Branches to express their views. All the points of the Torquay statement were endorsed and the meeting pledged whole-hearted support for them.

East Cumberland Branch: There is no need for the institution of a register of assistants in pharmacy.

Glasgow and South-western Scottish Branch: There is no necessity for the Society to prepare a register of unqualified assistants, and further, it is the opinion of this meeting that if such a register has already been prepared, it shall neither be published nor issued without previous consultation with all Branches.

Hull Branch: This meeting, having considered the recognition and examination of assistants, ask the Pharmaceutical Society not to put it into operation until the full scheme is available and it has been shown by referendum or otherwise that the majority of members are in favour.

Leeds and District Branch: The Pharmaceutical Society should have full responsibility for the examination and registration of such a body, should we be called upon to recognise such an organisation. The nomenclature we suggest is "A certificated Assistant in Dispensing."

Somerset Branch: The Branch is strongly opposed to any suggested listing or registration of assistants and, unless the Council is willing to postpone its decision until after the next annual meeting, demands that a special general meeting be convened in accordance with the provisions of the Charter of 1843. The Council decided to issue the following statement on the matter:—

In the report on assistants in pharmacy submitted by the Council to the Branch Representatives' meeting in Nottingham in 1952 in which the training and examination of assistants was proposed it was stated that the Society should assume responsibility for the establishment of conditions which will ensure that the training and examination are adapted to the purposes for which assistants are employed and for the maintenance of adequate control and supervision of assistants, including the number employed in relation to unqualified persons. Since then the means whereby these principles could be carried into effect have been under examination with a view to a suitable scheme being prepared. The Council are not yet in a position to announce their plans but will submit them to the membership for consideration in due course.

It was reported to the Law Committee that in January the Society's inspectors and agents had visited 1397 authorised sellers, 137 listed sellers, and 717 drug-store proprietors and similar traders.

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Photography in Coronation Year

WHATEVER changes may have been brought about during the years in the number of chemists who take an active interest in the supply of photographic materials and services, it remains broadly true that they are regarded by the majority of the public as "natural" photographic dealers. Among those—and there are quite a few—whose interest in the subject is slight or has been allowed to decline through heavy pressure on the strictly pharmaceutical side, the thought may from time to time occur that they are missing something not only of value but of interest. To any such we may make the point that Coronation year offers an unrivalled opportunity—such as will not, in all likelihood, recur for many years—to justify public confidence in them as photographic dealers. In addition to a growing home public of enthusiastic amateurs, there will this year be many more who will be handling a camera for the first time in order to secure their own pictorial records of scenes of historic ceremony in the nation's capital or of local pageantry elsewhere. In addition, there will be overseas visitors in thousands, many of whom, it is true, may take back their films for development at home if they can resist the temptation to see quick results of their pictorial efforts. Frequent reminders that developing and printing services are ready to hand will have an effect in attracting "hard currencies," in small amounts certainly, but many times repeated, into circulation in Britain. Films, of course, will be bought in large quantities by both home and overseas visitors, and those sales are likely to be decided by convenient access. It does not matter much where one buys a film, though to have to go too far to find a shop where films are sold may deter the more casual snapshotters. In the knowledge shown in demonstrating cameras and accessories, and in helping photographers to secure the finest results, chemists start with the advantage of a scientific background supported by developed skills, and for those who are prepared to seize the hour the prospects of profit, human contacts and widened interests are bright indeed. On other pages we deal with some of the problems of the chemist setting out to establish or expand a photographic department. Details are given of cameras and other goods most suitable to stock, of trade services available, and of the prices to be charged to be in step with other dealers. The subject of coated lenses is picked out this year as being one about which some scientific "background" is essential, and other articles deal with facets of the fascinatingly broad craft of

photography which, like pharmacy, has elements both of science and of art. To all dealers we wish a successful "season," to be followed in due course by an indoor season made more promising by an awakened interest in indoor photography.

Recovering Possession of Controlled Premises

CHEMISTS who, to attract staff, acquired properties as living accommodation, are sometimes faced with the legal question what happens when the employee's term of employment comes to an end. Is the employer entitled to recover possession?

The problem generally arises with properties controlled by the Rent Acts (that is, say, properties with a ratable value of not more than £100 in London or £75 elsewhere). The ex-employee may plead that he is protected under the Acts, and it is important therefore to understand the circumstances in which the protection can be claimed.

Occupation by an employee of premises belonging to his employer may fall into one of three categories: A *service occupation*, a *licence to occupy*, or a *tenancy*. Where a servant is *required* by his employer to occupy premises for the better performance of his duties, then the inference generally is that the occupation is a service occupation in which no tenancy is created. The fact that a deduction is made from his wages for the benefit he derives from the occupation makes no difference. The right of occupation equally comes to an end with the termination of the employment, and the ex-employee enjoys no rights under the Rent Acts.

Yet even though he is not required to occupy the premises a servant may be a licensee, and not entitled to the protection of the Rent Acts. But where licence ends and tenancy begins may be difficult to define. If the employee is in effect given an interest in the property, as distinct from the contract of service for a payment, then he is a tenant, and as such is entitled to claim protection of the Rent Acts:

The risk of an employee's occupation being regarded as a tenancy may be guarded against by providing that the sum payable by the employee for occupation does not exceed two-thirds of the ratable value of the premises, for tenancies at rents less than two-thirds the ratable value are not protected by the Rent Acts.

The Unsolved Enigma of B.C.G.

THOUGH the planning and execution of international trials of B.C.G. vaccines under the auspices of the World Health Organisation (see p. 262) were on a scale to fire the imagination, involving observations on children in Denmark and India, Egypt and Mexico, the results must be accounted disappointingly inconclusive. The main question remains unsolved: whether B.C.G. vaccination is of proved value in the prevention of tuberculosis in children. More has been found out about the preparation of the vaccine, its potency after storage, its enhanced activity when living and dead organisms are mixed, and so on. But until those facts have been utilised to solve production problems and provide an adequate supply of active, dependable, uniformly potent material, it would seem that little is to be gained by further such wide-scale tests.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

TITLES

SIR.—Our letterheading continues to draw attention to our veterinary department, and we shall also continue to advertise "dispensing chemist."

CRAWLEY, SUSSEX

H. J. SADLER

TYPE SIZES ON LABELS

SIR.—I emphatically endorse the remarks of Mr. F. E. S. Clarke (*C. & D.*, February 28, p. 219) about the small size of type used for such important items as the strength, etc., on the labels of many products sent out by manufacturers. In many cases, particularly with tablets, the size of the figures denoting the strength, which should be the clearest, is the smallest on the whole label. The name of the product, any synonyms, poison class, and especially the strength, in many cases should all be bolder. The manufacturer's name can stay as it is.

PEWSEY, WILTS.

M. P. WALKER

THE BLOOMSBURY SQUARE STAKES

SIR.—Another flat-racing season is upon us and with it comes the annual handicap for the Bloomsbury Square stakes. Nominations are being received and shortly we pharmacists will be given a list of starters, together with prodigious and previous performances. But here the analogy will end, for an iron curtain of silence will descend, and no details of training canters and form will come from the various stables. When the time arrives for the punter to back his fancy, the information on which he can judge the runners' capabilities will be weighted in favour of those with a previous performance over the course. New runners remain the dark horses they were at nomination, and the punter, if his interest in the event has not entirely disappeared through lack of stimulation, has no other alternative than to use the pin method of selection! It is obvious that this ludicrous situation can jeopardise the holding of this event. Fellow pharmacists, what are we going to do about it?

SLough

NORMAN HART

FLOOD RELIEF

SIR.—I would like to express, through the medium of the *C. & D.* my sincere thanks to the many firms who have helped us by replacing stock damaged by the recent floods. Their assistance has been both spontaneous and generous, and has done much to lighten the burden. I am, of course, writing to the individual firms personally, but this must take some considerable time.

LONDON, E.16

D. DESMOND & CO., LTD.,
R. C. STABLEFORD, Director

SIR.—The splendid response to the [Pharmaceutical Society's] appeal for the Flood Relief Fund makes it possible to give substantial assistance to those affected, but as it is too early for the full extent of the damage and loss to be known I hope that contributions will continue to be forthcoming. The Society has endeavoured to trace all the pharmacists affected but some may have been overlooked. I am therefore asking anyone with whom the Society has not been in touch to communicate with the secretary and registrar as soon as possible.

17 BLOOMSBURY SQUARE, W. JOHN TRISTRAM, President
LONDON, W.C.1

BRITISH PHARMACEUTICAL CONFERENCE

SIR.—On September 2 the Galen Lodge of London will hold a special emergency meeting to receive Masons from the provinces and overseas who will be attending the British Pharmaceutical Conference. Delegates wishing to attend this meeting should write to me as secretary of the subcommittee formed to make the necessary arrangements.

SHERBORNE, CEDAR DRIVE,
BARMING, MAIDSTONE

P. KING

SIR.—The annual meeting of the British Pharmaceutical Conference for 1953 is being held in London from August 31 to September 4, inclusive. The usual science sessions will be held for the reading and discussion of papers, and we

shall be glad to receive communications from research workers on subjects of pharmaceutical interest. It would be helpful if those who propose to contribute a paper would let us know the title as soon as possible. The last date for the receipt of manuscripts is July 1. Contributions accepted for the Conference will be published in the *Journal of Pharmacy and Pharmacology*, and authors will be entitled to a limited number of reprints. Papers should be as concise as possible, and a maximum of 4,000 words is suggested. In order to ensure adequate time for the reading and discussion of all the papers submitted, the time taken in reading each paper must be limited. Authors are accordingly asked to submit with their manuscripts a *précis* of their contribution in not more than 750 words, and to present their paper to the Conference by reading that *précis*. Diagrams and tables need not be included in the *précis* because, by courtesy of the editor of the *Journal of Pharmacy and Pharmacology*, copies of each paper in full will be available as usual before the Conference meets.

17 BLOOMSBURY SQUARE,

H. TREVES BROWN,

LONDON, W.C.1

H. G. ROLFE, Secretaries

VETERINARY PHARMACISTS ORGANISE

SIR.—It has recently been evident, through private correspondence, published letters and resolutions at branch meetings, that there is a feeling of confusion and discontent amongst pharmacists about certain matters concerned with what may be called veterinary pharmacy. Such matters include:—

(a) The sale of first-schedule poisons without qualified supervision by firms registered only as animal medicine manufacturers;

(b) the recent statement by the Council of the Pharmaceutical Society, restricting the pharmacists' discretionary power in connection with the sale of certain animal medicines;

(c) the anomalies existing through the application of the Penicillin Acts to preparations for the treatment of bovine mastitis; and

(d) the restrictive practices of some manufacturers in the distribution of veterinary products.

We believe that veterinary pharmacy has, within recent years, been losing ground, and that it must become organised and articulate if it is to survive as a professional activity. Many others appear to be in agreement with us here, as evidenced by the resolution unanimously passed by the Shropshire and Montgomeryshire Branches of the Pharmaceutical Society and National Pharmaceutical Union "that efforts be made to form an association of veterinary chemists," and by the response to the invitation by THE CHEMIST AND DRUGGIST (February 28, p. 238) for pharmacists to associate themselves with the formation of such an organisation. We are encouraged by this to form a provisional committee for the inauguration of a guild or association, its purpose to be

(1) to promote the professional status and interests of veterinary pharmacists;

(2) to encourage liaison between veterinary surgeons and pharmacists;

(3) to facilitate the interchange of information in matters concerning veterinary pharmacy;

(4) to oppose such restrictive practices and unfair trading as are contrary to the national interest and to the interests of veterinary pharmacists. The term veterinary pharmacist has been used for the sake of brevity. By it we mean pharmacists who are engaged to some extent in the manufacture and/or sale of veterinary medicines, agricultural chemicals, etc. We ask those who are interested in the founding of such an association, if they have not already done so, to send in their names and addresses to The Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, or to one of the undersigned. Any suggestions, comments or offers of clerical assistance will also be welcomed.

J. S. HORRIDGE, High Street, Tarporley, Cheshire.

S. MORGAN, Broad Street, Welshpool, Montgomerys.

A.E. MOSS, 6 Castle Gates, Shrewsbury, Shropshire.

R. S. ROWLAND, High Street, Whitchurch, Shropshire.

Some thoughts on questions that arise in ESTABLISHING A PHOTOGRAPHIC DEPARTMENT

A NY chemist who, not at present selling many films or cameras, wishes to work up a profitable turnover in photographic goods will encounter plenty of obstacles, but will find that he also starts with many advantages over other traders.

It may be a good plan to discuss some of the obstacles first, since they are of a kind that has discouraged many chemists in the past from pursuing very far their early efforts to become photographic dealers. In the first place, there is the question of status. It is in high degree unlikely that membership of the Photographic Dealers' Association will be granted on mere intention to launch out in the photographic trade. And what chance, it may be asked, has a chemist of obtaining supplies unless he is an accredited dealer? In fact, however, while it is an undoubted advantage to belong to a trade association, such as the P.D.A., which enjoys the confidence and support of leading manufacturers in the trade, to be a member is not in itself a guarantee of supplies. There are members who are, for example, not recognised Kodak or Ilford dealers. Conversely there are dealers with considerable turnover in those goods who are not members of the Association.

But a direct approach to the manufacturers mentioned is almost equally certain to be unsuccessful, and for approximately the same reason. The P.D.A. wants evidence that an applicant is selling photographic goods on a substantial scale before it will begin to consider an application for membership, and will also, no doubt, have its own ideas about whether a district is already well enough served in the distribution of photographic supplies.

So far as Kodak and Ilford goods are concerned, the companies' policy has been to appoint agents in each area and to try to channel all supplies to the public through the shops of those dealers. During the 1939-45 war particularly, when sensitive materials for non-military purposes were allowed to be distributed only on a severely "rationed" basis, it was a matter of common sense and routine for the manufacturers to decline to open new accounts.

Prospects of Success

To a chemist wishing to become a photographic dealer the situation may therefore seem like a closed circle, a vicious circle almost, into which it is hopeless to try to penetrate. If one must give proof of sales before being allowed to stock, what possibility is there of securing a foothold?

In the first place, while it is an obvious asset to be a stockist of two brands of film that virtually sell themselves from the extent of the manufacturers' propaganda and the prestige that attaches to their names, it is wholly possible to supply every photographic need from the goods of other manufacturers. A little salesmanship may be called for to ensure a trial for a film that is perhaps less well known



A display of photographic goods at the pharmacy of Andrews (Arnold Neave, Ltd.), 14 Brand Street, Hitchin, Herts. The photographic department of the business accounts for about 30 per cent. of its annual turnover. About half that amount is represented by developing and printing. Messrs. Andrews set up their own D. and P. department, which is now a small separate trading concern. They have a small wholesale connection which enables them to maintain an efficient staff and are still able personally to supervise the work. They find that the public appreciate quality in D. and P. when it is offered to them, and that a reasonably rapid service with work of a high standard offers the best means of securing a good photographic connection.

than the nationally advertised brands, but the sight of a full window display of photographic goods covering all the day-to-day requirements of the amateur photographer will encourage the customer to show confidence in the recommendation of the chemist, a confidence which in any event the chemist is accustomed—more than any other trader—to receive. The customer appreciates that the chemist has a background of chemical knowledge.

His knowledge of the basic chemistry and physics of the subject, from which he can enlarge his range without difficulty to deal with customers' queries on processing films and papers, reasons for unsuccessful results, possible defects in apparatus or materials, recent developments in specialised fields such as colour photography, etc., will stand him in good stead from more ways than one. The public are predisposed to accept him as adviser; and manufacturers and wholesalers are predisposed to regard him as a good account. Since the early days of photography the chemist's shop has been regarded by the public as the natural source of supply of cameras and films, and the wholesaler starts with some of his normal inquiries into the status of a new account already answered by the fact that the chemist is a professional man who has passed an examination and has his name entered in a statutory register.

Today, too, the conditions of the war period are becoming a memory and the circumstances are radically changed in at least three respects. On the one hand the resources of the manufacturers are not strained to the limit to meet Government demands, and competition is again growing keen among home manufacturers, eager to secure the goodwill of civilian photographers, and even (to an extent limited by import quotas) from manufacturers overseas. In addition, the potential supply of films in this country has been enormously expanded by the laying down of a plant for the manufacture—for the first time in Britain—of the film base that takes the sensitive coating. Sooner or later, production from that factory may, whatever the present intentions of the photographic film makers, profoundly influence the policy of supplying films exclusively through accredited agents who can guarantee a high enough minimum investment in stocks. It is to be expected that, if and when the time comes that the interests of the manufacturer drive him to seek new points of distribution, he will prefer to choose them among chemists rather than among a mix-

ture of other traders with greater or less claim to rank as photographic dealers.

On the consumer side of the picture there is, moreover, an expansion of public interest of a critical kind to be taken into account. In the past the photographic trade in this country has, in the opinion of many disinterested people who wish the industry well, suffered because general critical standards, both amateur and commercial, have been too low by comparison with those of certain other countries. That is not in any way to detract from the outstanding merit of this country's leading pictorial and scientific photographers (again both amateur and professional), bearing comparison as they do with the best workers in other countries. It is to assert that general standards have been at a level well below that of the discriminating minority. Today the discrimination is, and is becoming, more widespread—possibly in advance of the steps taken by the trade to cater for it. People accustomed to high Press standards of illustration in the weekly picture papers of mass circulations are coming to be able to tell a good print from an indifferent one, and will not for long go to relatively distant shops for photographic work that is less than first-class. In this respect photography is a little like love: it "grows by what it feeds on." If the facilities are ready to hand for securing apparatus and service that give permanent pleasure and aesthetic satisfaction, the camera will come into more constant use by a wider section of the population. Interest and criticism will likewise grow from discussion and comparison of results, and in turn the amount spent on photography, compared with expenditure on other hobbies, entertainments and cultural pursuits, will rise. If that is a reasonably correct analysis and prophecy, there is room quite clearly for many more dealers who can give the necessary expert advice, help, materials and service at the right time. To what member of the community does the citizen turn more readily for technical advice, in understanding terms, than to the pharmacist?

Wholesalers' Facilities

But it is rather to the wholesaler than to the manufacturer that the would-be photographic dealer should turn his attention. There are many advantages to the dealer in buying his photographic goods, irrespective of manufacturers, from a wholesaler. The recognised drug wholesalers cater in some degree for the retailer of films and popular models of cameras, and it is often a convenience to include drugs and films on one and the same order. The specialist photographic wholesaler does much more. From his comprehensive stocks, obtained from all the manufacturers in the trade, he can make up mixed orders involving some large and some small purchases, or even all small purchases—a fact of interest to the chemist with his way to make. The wholesaler can do that type of business profitably to himself, whereas it would obviously not be worth the while of a manufacturer to concern himself with very small orders, or of a chemist to open direct accounts with a number of manufacturers. Another advantage the wholesaler can give is a speedy delivery of goods ordered. Today the photographic wholesaler can offer a delivery service almost comparable with those services—so humouing to the retailer—that have come to be a matter of course in the London area as the result of keen competition among the wholesalers.

But the help of the photographic wholesaler is forthcoming long before the stage of delivering the goods is reached. He is an expert adviser on what to stock, and his services are especially valuable in deciding on what shall be the opening order. Since many of the goods in the photographic field are, by comparison with pharmaceutical supplies, high-priced, it is important to open with a balanced stock and with not too much capital tied up in items that will not enjoy a rapid turnover.

One thing that has to be accepted is that the photographic business is one in which, as in pharmacy itself, the relation of seller and buyer is not enough. The pharmacist

starts with the initial advantage that he has studied the basic optics and chemistry on which photography depends, but he must be prepared to enlarge that knowledge, theoretically by more advanced study of some of the many ramifications that have widened the scope of the craft, even at the level of pastime photography—since the primitive discoveries of the pioneers. He has also to be a photographer himself, at least to the extent of knowing all the obvious pitfalls, and of being able to handle knowledgeably and with confidence the apparatus he sells. Otherwise he neither deserves nor gets the custom and confidence of the public.

Provision for Photo Finishing

It is no less vital to make the best possible arrangements for those services usually not carried out, in these days, by the dealer himself but by the photo finisher. The highest standards of finish in developing and printing are not a mere matter of pride. They are so important that only a few lapses may leave a customer so "browned off" that he loses interest in a pastime that could have brought recurrent profit to the dealer just as it gives lifelong pleasure to the enthusiast. High standards are particularly desirable and necessary to the chemist setting out to expand his photographic department from insignificance to something worthy of admiration, and particularly, too, in Coronation year, when there will be in Britain so many overseas visitors accustomed to receiving work of a very high order from their own photographic dealers, and when so many newcomers to photography in Britain will be spurred to greater efforts or discouraged from further trials by the quality of the service they encounter.

EXAMINATIONS FOR PHOTOGRAPHIC DEALERS

A FEW years before the 1939-45 war, the Photographic Dealers' Association introduced an educational scheme for its members and their assistants. They were encouraged to study both theory and practice, and to guide their studies the Association drew up a syllabus, introduced annual examinations and issued diplomas and certificates to successful candidates. The first examinations were held in 1939, but after 1940 the scheme was interrupted by the war. Examinations were resumed in 1947 and since then the number of candidates has grown year by year. The next examinations are being held on April 22.

Originally there were only two grades in the examination: Intermediate and Advanced. Certificates were awarded to successful Intermediate candidates, diplomas to those who passed the Advanced examination. The Intermediate syllabus calls for the study of cameras, lenses, shutters, enlargers, accessories, artificial lighting, sensitive materials, chemicals, etc. The Advanced syllabus demands a more extensive knowledge of those subjects and in addition calls for study of sensitometry, precision miniature cameras, basic principles of cinematography, visual aids, and magnetic sound recording.

This year the scheme has been carried a stage further. The Advanced examination has been subdivided into two parts. Part II is open only to persons who have passed Part I. It demands a deeper knowledge of cinematograph apparatus and techniques. In addition to taking written papers, candidates are required to submit specimens of their own work on specified subjects in order to assess their practical ability, and there is an oral examination in which ability to explain equipment and accessories is evaluated by examiners who assume the rôle of inquiring customers. Full details may be obtained from the Association at 46 Bloomsbury Street, London, W.C.1.

BENEFIT TO WRONG PATIENTS.—The idea of combating boredom in the out-patients' reception hall at a King's Lynn hospital by installing tanks of goldfish is said to be working wonders for the fish, though several patients complain that they are sick of being stared at.—*From Punch.*

The purpose and method of making of COATED LENSES

BY ARTHUR H. PALMER

NOW that almost all but the least ambitious cameras are fitted with coated lenses it is highly desirable, if not essential, for the photographic retailer to have a clear idea of the purpose of lens coating and the method by which the coating is applied. Coated lenses may readily be distinguished by a plum-purple coloration seen when they are viewed slightly from the side. The appearance is, in a way, reminiscent of the "bloom" of a purple plum, though not so "powdery" looking. It gave rise to the description "bloomed"—a term which, however, is gradually dying out. The coating is more correctly referred to as an "anti-reflection layer." Not too much credence should be placed on the claims frequently made that coating increases the "speed" of a lens. It certainly does, but not to a degree that has any real practical significance, except, perhaps, in multi-component lenses. The chief value lies in the reduction of internal reflections and "scatter" of light in a lens system.

Effect of Coating

The mere fact that a polished lens looks "bright" indicates that some, at least, of the light falling on it is being reflected. The amount reflected is something of the order of 5 per cent. Hence, allowing for a small degree of absorption by the glass, an uncoated lens transmits a little less than 95 per cent. of the light which impinges on it. In a lens with a large number of components the loss of light may reach a value of 30 per cent. or even more. The effect on the transmission (or "speed") of a lens, then, is more marked on complicated lens systems than on simple ones.

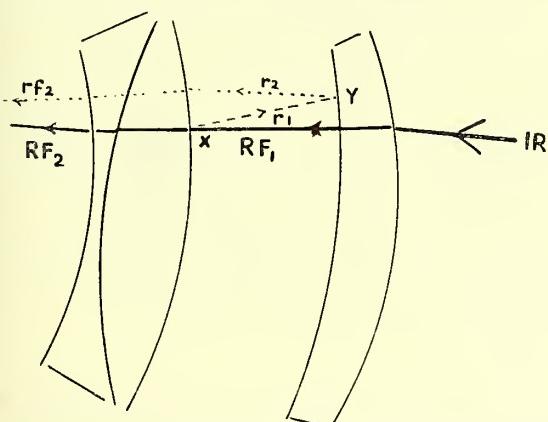
or so passes on its way, but 5 per cent. is reflected back to the rear surface of the first component. Of this, 5 per cent. is reflected again and so on *ad infinitum*. This is what is meant by "scatter." Under certain conditions, however, the amount and direction of internally reflected light may be of a nature that produces a concentration of light (flare), or even a secondary image in the negative plane. Ghost images of light sources outside the field of view of the lens are manifestations of this phenomenon. The more complex the lens, the greater its liability to suffer from "flare" and "ghosts." However, by coating the surfaces of the components of a complex lens, the amount of internal reflection can be reduced to negligible proportions.

Mr. H. S. Newcombe, F.R.P.S., in lecturing to photographic societies at the time coated lenses were beginning to appear on the amateur market, used to demonstrate conclusively the advantage of surface-coated lenses used on enlargers. Using an ordinary vertical enlarger fitted with an uncoated lens he placed a silver coin in the negative carrier and, in the darkened room, it was possible to discern on the baseboard a clear if weak image of the design from the lower face of the coin, that is, the face not receiving light through the condenser system of the instrument. On replacing the lens with a coated one and repeating the experiment, the shadow of the coin was perfectly blank. When the uncoated lens was in place, some of the light which passed round the coin was reflected from the rear surface of the lens to illuminate the lower face of the coin sufficiently for an image of the design to be produced on the baseboard. In the absence of such reflection the underside of the coin received no illumination. The experiment demonstrated plainly that, by reducing "scatter," the contrast of an image produced by a lens, in either a camera or a projector (enlarger, film-strip lantern or cinematograph projector) is enhanced if a coated lens is used. The brilliance of the image seen in binoculars with coated optical systems is also improved.

Value in Colour Photography

Although a coated lens appears to be coloured, the colour balance of the light transmitted is not affected, so that there is no question of any "filtering" action which might contraindicate its use in colour photography. Indeed, it is eminently suited for such work, since the light from large brightly illuminated and coloured areas is not scattered to produce the "colour casts" frequently seen in colour photographs, for example, when a brilliant blue sky tinges the highlights of a picture and when a highly coloured and reflective object, even outside the angle of view of the lens, impresses its colour on the scene.

The use of coated lenses derives from an observation made in the early 1890s by Mr. H. Dennis Taylor, York, designer of the famous Cooke Triplet photographic lens. Taylor noticed that the new glass from which the lenses of his astronomical telescope were made tarnished rapidly. That prompted him to carry out experiments to determine how much light was being absorbed by the tarnish. To his surprise he found that the transmission of the "weathered" lenses was slightly higher than that of a freshly polished lens made from the same glass. From then on, numerous methods were tried to produce an artificial "weathering." In 1914, Professor Gershun experimented with the "spluttering" of surface films on glass *in vacuo*. In 1921, F. E. Wright disclosed details of experimental work undertaken



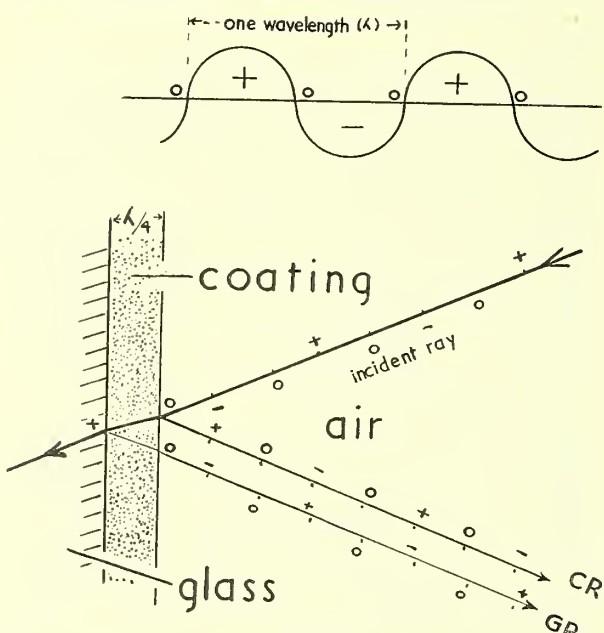
INTERNAL REFLECTION IN COMPOUND LENSES: Incident ray IR is refracted in the first element, enters the second component at X, and emerges along path RF₁. A certain proportion of the light is reflected along path r₁ to meet the rear surface of the front element at Y, where some of it is reflected along path r₂, to be subsequently refracted in the second element and emerge along RF₂.

A gain of 30 per cent. is only equivalent to an increment in film speed of 1° B.S.—certainly not worth, in itself, the cost of coating. Why, then, is coating to be advocated? For the answer one must look again to that stray—and the word is used here advisedly—5 per cent. of light.

A good photographic objective is composed of a number of lenses all carefully arranged to counteract aberrations so far as is possible. Most camera lenses in current use by serious workers have at least three components—that is six glass/air surfaces. Light having passed through the front components reaches the next surface, where 95 per cent.

in the Bausch and Lomb Optical Co.'s laboratories during the 1914-18 war.

Dr. John Strong proposed and developed a physical method of applying an anti-reflection layer, which was later developed further by C. W. Cartwright and A. F. Turner



HOW THE COATING ACTS: For convenience in graphic representation the wave formation is shown as a straight line marked +, - and 0 at quarter-wavelength intervals, the position of these points being indicated on the waveform diagram above. The incident ray impinges on the surface of the coating. The majority of the light passes through to reach the glass surface but a proportion is reflected back along direction CR. At the surface of the glass a certain amount of reflection again occurs, the reflected light travelling along direction GR. The reflected ray has travelled twice the thickness of the coating ($\frac{1}{2}$ wavelength) and emerges one-half wavelength "out of phase" with the ray reflected from the surface of the coating. The two rays therefore "cancel out," and no reflection occurs. Since energy cannot be destroyed, that conserved contributes to the total transmission.

(of the department of research and engineering, Bausch and Lomb Optical Co.). An important contribution was made by Dr. Katherine Blodgett who demonstrated, in 1939, that the coating should have a definite thickness.

Method of Coating

Possible methods of producing a coating are:—

- (1) **THE LEACHING PROCESS:** Under this essentially chemical process the surface is treated so as to modify the superficial layer of the glass itself by dissolving away all constituents but silica. The practical drawbacks of such a process are obvious.
- (2) **THE SPINNING PROCESS:** Somewhat similar to the leaching process, the process requires the lens to be chemically treated while rotating about a vertical axis.
- (3) **THE VACUUM PROCESS:** This is the method which has enabled lens coating to be carried out on a commercial scale.

Not only are lenses coated at the time of manufacture (such lenses are frequently referred to in the photographic Press as "factory coated") but there are a few optical firms who will undertake to dismantle used objectives, coat the elements and reassemble them. Scrupulous cleanliness of the glass surfaces is essential. Unless the lenses come straight from the production line they must be freshly repolished immediately before treatment. The freshly polished lens is degreased and placed, on a suitable support, in the vacuum chamber of the coating unit. In this chamber is a trough-shaped molybdenum filament connected between

two terminals. Into the "boat" is placed the requisite amount of magnesium fluoride. Surface dust is blown from the lenses and a Pyrex or similar glass bell placed in position on its rubber seating. The air pressure in the chamber is then reduced to a low value and the lenses are subjected to ionic bombardment to free them from adsorbed gases, which, if they were allowed to remain, would militate against the hardness and evenness of the coating. This stage of the process is spectacular. A high alternating-current voltage is applied via two aluminium electrodes, and the gas remaining in the bell-jar fluoresces.

The "scouring" by ionic bombardment having been completed, the high-tension current is switched off, and the pressure in the chamber reduced even further—to a vacuum of 10^{-5} mm. Hg. Next, a low-tension current is passed through the trough-shaped filament adjusted until the heat generated melts the fluoride, which then begins to volatilise and subsequently to condense on the under-surfaces of the lenses in the chamber. The operator carefully watches the reflections in the lenses of a suitably placed white lamp. As the coating of condensed fluoride builds up, the colour of the reflection changes through deep-straw, amber, reddish amber, red-purple, purple-blue and so on. The process is usually stopped at the purple-blue stage, the colour indicating that the thickness is about $1/250,000$ in. (four millionths of an inch) thick. The high vacuum valve is then closed, the lenses are allowed to cool, and air is admitted slowly. If the opposite sides of the lenses are to be treated they are reversed in their holders and the process repeated. The coating may be further hardened by the application of radiant heat, but that can only safely be applied to non-cemented components. It will be seen that lens coating is in the nature of a laboratory process.

Care of Lenses

The glass from which high-quality lenses are made is not generally as hard as the glass used for most everyday purposes and should be treated with extra care. Surface dust should be carefully removed by dusting lightly with a soft camel-hair brush, or preferably by blowing across the surface with a rubber-ball type of syringe. Then a light polish may be given with a piece of old, well-washed soft linen or, better still, Selvyt cloth. Fine particles of grit on the lens or in the cloth produce minute scratches that impair the performance of a lens. Since the surface of a hard-coated lens is practically as hard as the glass itself, the treatment described may be applied to a coated lens but it is unwise for the uninitiated to use any solvent cleaning agent. The free chlorine in domestic water supplies attacks the coating. Any major cleaning operation on a coated lens, therefore, should be entrusted to a specialist. Leaving it to him may well prove cheaper in the end.

Summary

Lens coating enhances image contrast by reducing internal scatter. It is particularly valuable in colour photography, outdoor photography at night and "against the light" photography where the effects of scatter and flare are most likely to be encountered. Anti-reflection treatment is particularly valuable when applied to projection lens systems. Light transmission of optical systems is increased but the advantage is secondary to that accruing from the reduction of internal reflection. The increase in transmission reaches significant proportions only in multi-component systems. Although the process has not been sufficiently long in use for conclusive evidence to have been obtained, it is to be expected that coating will afford protection against atmospheric attack.

LIVE WIRE!—A pharmacist in Anderson, Indiana, U.S.A., has installed direct telephone lines to twenty doctors to make it convenient for them to telephone their patients' prescriptions to him.

D. & P. WORK AND PROSPECTS in Coronation year

BY LESLIE G. SANDYS, A.R.P.S., F.R.S.A.

"If only I'd had my camera with me" is an expression which most dealers have heard many, many times; and every time those words are spoken their underlying message is, to the dealer, "that's another order lost."

In 1953 especially good picture-making opportunities will abound, and no customer, nor even any prospective customer (i.e., anyone who may look into the shop window), should really have any excuse for leaving his camera at home. The fact that one deals in photographic goods and photo work should be an encouragement to keep reminding the public that, in this Coronation year, there will be chances to take photographs the like of which may never occur again in the lives of a great many of us.

Nothing "catches on"—which is to say nothing appeals to the imagination—more than a good slogan. A catchy slogan is read quickly and remembered when any amount of good advice in wordy form is long forgotten; that is why so many manufacturers use slogans in place of hundreds of words in their advertisements. Just one example to prove the point: "For Faces and Places." Is there any need to add that those four simple words are used to advertise Ilford films? Photographic dealers need a good slogan of that kind to remind people that there will be so many chances of historic pictures this summer that they should never go out without taking a camera along. Any chemist dealing in photographic goods will no doubt be able to think of a slogan to use in his own business, but for the benefit of anyone who cares to use a ready-made one the author suggests: "Always Carry a Camera." There is nothing brilliant or "clever" about that slogan, but it is short, and catchy because it is alliterative. It can be made the subject of window streamers, special showcards, newspaper advertisements, cinema advertisement slides, and notices in programmes, and can be printed on "stickers" to be attached to print wallets, films, and other packages.

Never Again Such a Chance

In all window displays—and displays inside the shop—the aim should be to tell people that, for taking pictures, they are going to have a chance this year that may not ever occur for them again. Every town and village in this country will have its quota of Coronation festivities, and arrangements are already well advanced in most places. It should, therefore, be possible for any dealer to make up a short list of possible subjects for snapshots and to tell customers all about them.

"Telling" customers does not necessarily mean telling them by word of mouth, though that aspect of the matter should not be overlooked. Window displays are possibly an even better medium for conveying the message because they do it silently and continuously and they tell many people at a time. Pictures of suitable events should be introduced wherever possible; photographs of festivities and parades on other occasions are particularly helpful in telling the story. It may be that the trade finisher will be able to help in supplying the right type of prints and enlargements. If window and counter showcards tell people that history is being made this year they will be quick to realise that it would be a pity to miss taking snapshots that will, in the years to come, bring back priceless memories.

Many manufacturers are producing special lines to mark the Coronation year, and chemist-dealers will find that it will pay to follow that example. Those who put their work out to be processed by a wholesale photo finisher will find no difficulty in providing "Coronation lines," for finishers are able to purchase specially produced folders, etc.,

from the large mount manufacturers, bearing emblems of royalty such as a crown, or flags, embossed or in colours.

It should not be beyond the ingenuity of any dealer to decide upon some special "Coronation enlargement" idea which, with the co-operation of the finisher concerned, can be worked up in an attractive and profitable form for the exclusive use of the dealer. When the finisher knows that one of his trade customers is intending to take a real interest and to "push" a special line, there is little doubt but that he will go to considerable pains to help in the production of the goods and in making specimens available for the window display.

An "Occasions" Service

The dealer who has, as suggested earlier, found out what is going to take place in the way of festivities locally can make use of his knowledge profitably in another way. There may be parades, shows, exhibitions and firework displays, for instance, and it is obvious that people are going to come to town from surrounding districts and perhaps from far-away places to see what is going on. Those people are, we hope, going to bring cameras with them. There is nothing more natural than that they should want to see their pictures as soon as possible: and also nothing more natural than that they will think of taking their films back to their home-town dealer for this purpose.

That is fine for the home-town dealer—if he happens to be you—but it is not so good for you if you are the dealer in the town where the festivities are taking place. The thing to do, then, is to arrange with your finisher to have a special service at the particular times when all these extra snapshots are likely to be taken. If the festivities are of such a nature that they are likely to keep visitors in the town for two or three days, it may be possible to arrange a developing and printing service to deliver the prints before the owners leave. On the other hand, the one-day show or other form of Coronation commemoration may bring people flocking into town for the day and leave them taking their films home with them—unless the dealer can think of some means of persuading them to do otherwise. One solution is to offer to take the name and address and mail the work to the customer—of course without extra charge. Though there is the loss of the postage to consider, that is less than the loss of the whole of the trade discount on a complete D. & P. order.

Never was there such a good time for encouraging the use of colour photography as now, with the pageantry and brilliant colouring associated with the Coronation and its allied festivities. Colour films are gradually gaining in popularity, and the present time is not too soon to start recommending them to amateur photographers for the interesting colour shots that will be available this summer.

Those who feel that colour photographs are a little beyond their means can be introduced to the novelty of the hand-tinted enlargement, prices of which can be quite reasonable and the results very attractive when produced by a capable colour-artist.

Since shop windows everywhere are going to be highly colourful, with loyal decorative schemes, the window of the photographic dealer will seem drab indeed if it, too, does not have its quota of extra colour in some form. Why not suggest now to the trade finisher that he should make up some coloured specimens for the window and counter? For it is now that he will have the time to do it. Wants of that kind should not be left until the finisher is so busy with summer work that he has not time to meet the request.

NEW LIGHT ON LATENCY

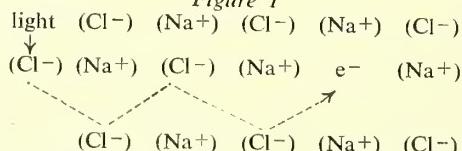
A recent theory on latent image formation

BY L. R. C. HAWARD, B.Sc.

AN example of how the solution to a problem may come from the most unexpected sources is to be found in the elaboration of a recent theory regarding the latent image—a hitherto mysterious, invisible something on the exposed film. A clue from a German chemist working in a different sphere, plus new techniques in atomic physics, has at last enabled the secret of the latent image to be understood.

The peculiar colour of rock crystals obtained from certain sources, such as the deposits at Stassfurt, led to the examination of these crystals and the subsequent discovery of F-centres, the clue referred to. The crystals are composed of a lattice of positive and negative ions (electrically charged atoms) arranged alternately like chessboard squares but in three dimensions instead of two. During the formation of the crystal, spaces are caused by some negative halide ions not falling into place. Those spare halide ions "hang about" on the outside of the crystal

Figure 1



The electron, liberated from an external halide ion by the action of light, wanders through the crystal lattice until trapped in the vacant space, where it forms an F-centre.

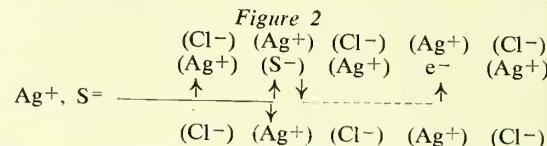
unable to leave because of the attraction of their charge. When light strikes the crystal, it provides sufficient energy to remove the excess electron from these ions, which are then free to wander away in pairs in the form of gas. The liberated electron, meanwhile, travels around the crystal until it is eventually trapped in one of the spaces of the defective lattice. Fig. 1 illustrates this diagrammatically.

Action of the F-centres

F-centres react to light in a variety of ways, depending upon the size of the positive ion. In special crystals of sodium chloride, for example, the two ions, sodium (Na^+) and chloride (Cl^-) are similar in size, and the electron in the F-centre absorbs all the blue from light passing through the crystal. The result is that the crystal then appears orange. In potassium chloride, however, the potassium ion is much larger, and the F-centres in this crystal absorb light of longer wavelength, i.e., in the red, so that the crystal appears blue. It is from this colouring action that the F-centre gets its name (it is the anglicised version of the German Farbzentren, colour centre).

The photo-sensitive grains in film emulsion that are responsible for forming the image consist of similar ionic latticed crystals composed of positive metallic ions (silver), and negative halide ions. F-centres may be expected to occur during manufacture of the photographic emulsion, and their presence in emulsion has been confirmed. Since light is excluded during the process, however, the electrons that occupy the F-centre spaces must come from a different source. In this case, use is made of the sulphur atoms that form part of the gelatin base. It was originally supposed that the sulphur-containing gelatin was a necessary component of the emulsion, but experiments have shown that it can be replaced with silver sulphide. During manufacture, some of the silver in the emulsion unites with the sulphur in the gelatin to form silver sulphide, Ag_2S . These molecules take their place in the lattice, the sulphur ion, with

its double negative charge, taking the place of one of the missing halide ions. This double charge destroys the neutrality of the system, however (Fig. 2), and to balance the lattice one of the sulphur ion's excess electrons leaves the sulphur and wanders to another space where there is a



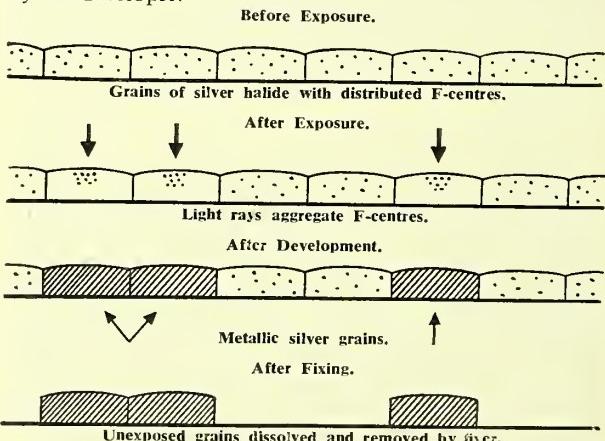
Silver sulphide, formed during the manufacture of the emulsion, forms part of the lattice. One of the excess electrons from the sulphur moves to an empty space so that the crystal charges are evenly balanced (i.e.) alternately positive and negative.

negative deficiency. The lattice is now evenly balanced, and one F-centre exists for every sulphur ion in the crystal.

Now the silver ion is very large compared with the former positive ions and the F-centres are unable to absorb visible light. They utilise the energy obtained from light passing through the crystal, to aggregate at one point at the surface of the crystal. When the camera shutter is opened, light falls on some of the silver halide crystals in the emulsion, and the F-centres distributed throughout these particular crystals aggregate to the surface. The crystals that have received light therefore differ from those that have not in that the latter still have widely distributed F-centres. The grains that contain F-centre aggregates therefore constitute the latent image.

Collapse of F-centres

Developer may be considered to be an electron donor. During development, the developer adheres to the grains, and finds in the F-centre aggregates a willing receiver of unwanted electrons. The electrons are consequently passed over into the F-centre, which becomes an ever-growing electron cloud, until finally the lattice bursts, each electron clasping a silver partner, and every pair thus formed fusing into metallic silver. After development, the emulsion contains grains of silver and grains of silver halide untouched by the developer.



Fixer is a solvent capable of dissolving the silver-halide crystals (which thereby form a solution) but which leaves the metallic silver grains untouched. When the film is removed from the fixer, the dissolved grains of silver halide remain in the fixer, and the film is no longer sensitive to light. The diagram illustrates this.

PHOTOGRAPHIC CENTENARY

EXHIBITION

As part of its centenary celebrations the Royal Photographic Society is holding, until March 28, an exhibition at the Science Museum, London, S.W.7 (10 a.m. to 6 p.m. on weekdays; 2.30 to 6 p.m. on Sundays), and at its headquarters, 16 Prince's Gate, London, S.W.7 (9.30 a.m. to 5.30 p.m. (5 p.m. on Saturdays); closed on Sundays).

Photographs from 1846

A total of 415 prints (105 of them at Prince's Gate) from the Society's permanent collection are being shown. The photographs on show at the museum cover a period from 1846 to the present day. Calotypes, Daguerrotypes and photographs made by the wet collodion process are included. The prints at the Society's headquarters all date from after the turn of the century. Books from the library are also on view at Prince's Gate.

A varied collection of photographic apparatus of historical and technical interest is being shown at the Science Museum. The exhibits are derived from the collections of both Society and Museum. Many early and modern cameras on view include a gun camera

(1885) and eighteen circular films each of $1\frac{1}{2}$ in. diameter. The films could be changed rapidly and one of the uses of the instrument was the photographing of birds in flight. A "revolver" camera (1870) has a pistol grip and holds a rotary magazine of four films. Daguerrotype and calotype cameras are shown with all the apparatus necessary for the production of photographs by the relevant processes. A box tent mounted on a large wheelbarrow shows how a photographer using the early wet plate process had to be encumbered. Among the smaller pieces of apparatus on show are a number of nineteenth and early twentieth century shutters (including one of the first focal plane shutters (1900)); a photometer invented by Ferdinand Hurter and Vero Charles Driffield for measuring the density of developed photographic plates; and various early photographic lenses.

Variety of Apparatus

Apparatus representing many stages in the development of the production of moving pictures ranging from simple apparatuses for "flicking" through

a series of photographs to a cine camera of 1930 is on view. A reconstruction of a zoetrope made by J. E. Masey in 1886 to illustrate the flight of birds is arranged so that visitors can set it in operation by pressing a button. One of the earliest attempts at producing talking pictures is illustrated by a projector dated 1891 in which celluloid film was used and which was provided with a gramophone. The original celluloid film (with some prints made from it) made by William Fries-Greene early in 1890, and the cine camera with which the Jubilee procession of Queen Victoria in 1897 was filmed are being shown. A machine representing an early (but commercially unsuccessful) attempt to produce coloured moving pictures was designed to project monochromatic pictures through coloured filters.

Early Records

Also on show at the Science Museum are some of the early records of the Society. They include the minute book of the inaugural meeting and a manuscript book containing details of W. H. Fox-Talbot's calotype process.

DEVELOPING, PRINTING and ENLARGING PRICES

Photographic Dealers' Association Revised Schedule, March 1953

DEVELOPING

ROLL FILM (other than miniature)			
	Spool	s. d.	
Ordinary	1 0		
Fine grain	1 3		
Bantam and similar	1 3		
Total failures: 50 per cent. charge.			

MINIATURE SPOOLS (24 x 36 mm. negatives and smaller)			
	Spool	s. d.	
1—18 exposures	1 6		
19—36 exposures	2 0		
Total failures: 50 per cent. charge.			

PLATES AND SHEET FILM (minimum charge 6d.)			
	Each	s. d.	
Up to $2\frac{1}{2}$ x $3\frac{1}{2}$ in.	3		
$4\frac{1}{2}$ x 5 in.	4		
$4\frac{1}{2}$ x $6\frac{1}{2}$ in.	6		
$6\frac{1}{2}$ x $8\frac{1}{2}$ in.	7 $\frac{1}{2}$		

PRINTING

CONTACT PRINTING (masked or unmasked)			
	Each	s. d.	
Paper size up to $2\frac{1}{2}$ x $3\frac{1}{2}$ in.	3 $\frac{1}{2}$		
$3\frac{1}{2}$ x $4\frac{1}{2}$ in.	4		
$3\frac{1}{2}$ x $5\frac{1}{2}$ in.	4 $\frac{1}{2}$		
$4\frac{1}{2}$ x $6\frac{1}{2}$ in.	6 $\frac{1}{2}$		
Sepia toning: 50 per cent. extra.			

MINIATURE CONTACT PRINTING (24 x 36 mm. and smaller negatives)			
	Each	s. d.	
Single prints, masked	3 $\frac{1}{2}$		
From two or more adjacent negatives (unmasked) priced according to size.			

ENLARGING

ENLARGEMENTS, FIRST QUALITY (unmounted)

FROM any selected portion of the negative, including shading, vignetting and spotting, if required. The dimensions quoted are standard sizes of enlarging papers and are subject to trimming.

PAPER SIZE	B. AND W.	SEPIA	MOUNTING
Up to	each	each	extra
$3\frac{1}{2}$ x $5\frac{1}{2}$ in.	s. d.	s. d.	s. d.
$4\frac{1}{2}$ x $6\frac{1}{2}$ in.	0 9	1 1 $\frac{1}{2}$	—
($\frac{1}{2}$ -plate)	1 6	2 3	1 6
$6\frac{1}{2}$ x $8\frac{1}{2}$ in. (whole plate)	2 6	3 9	2 0
8 x 10 in.	3 6	5 3	2 6
10 x 12 in.	4 6	6 9	—
12 x 15 in.	5 6	8 3	—

The varying proportion length to width in the negative often necessitates the finished picture being trimmed to correspond.

POSTCARD-SIZE ENLARGEMENTS (3 $\frac{1}{2}$ x 5 $\frac{1}{2}$ in.)

	Each
From whole or any selected part of a negative, black and white.	s. d.
sepia	9
..	1 1 $\frac{1}{2}$

FOURSQUARE ENLARGEMENTS

MADE from the whole of the negative only from square negatives, irrespective of size, on paper, glossy or semi-matt, 4 $\frac{1}{2}$ in. square.

	s. d.
Black and white	9
Sepia toned	1 1 $\frac{1}{2}$

MISCELLANEOUS

COPY NEGATIVES

FROM photographic originals only. Books, maps, etc., charged extra.

	s. d.
Up to $\frac{1}{4}$ -plate	3 0
$3\frac{1}{2}$ x $5\frac{1}{2}$ in.	4 0
$4\frac{1}{2}$ x $6\frac{1}{2}$ in.	5 0
$6\frac{1}{2}$ x $8\frac{1}{2}$ in.	10 0

LANTERN SLIDES

FROM customers' negatives:

	s. d.
bound complete	3 0
unbound and without cover	2 0
Masking and binding between cover glass, customers' own transparencies	1 0
Sepia toning 50 per cent. extra.	

AFTER-TREATMENT

Cleaning, washing, intensifying, reducing, etc.:

	s. d.
Single negatives	9
Each additional negative	3
Blocking out, according to work required, minimum ..	1 0

CHLOROPHYLL AS DEODORANT

Recent work and some observations upon it

AN endeavour to examine critically the properties of chlorophyll as a deodorant is described by Brocklehurst in the *British Medical Journal* (1953, 1, 541). Using mercaptan as odorous agent (chosen as contributing to the odour of the gas normally present in the lower bowel), Brocklehurst caused it to be carried on a stream of nitrogen through different types of apparatus containing chlorophyll solution. Any mercaptan that passed over was absorbed in a standard iodine solution in order to measure the amount of it unaffected by the chlorophyll. A control experiment substituted water for chlorophyll solution. In one experiment the chlorophyll solution or water was absorbed on filter paper attached to a baffle but later, in a second and more accurate experiment, the mercaptan was caused to pass through a column of either chlorophyll solution or water. In the first, 12.6 mils of iodine solution was reduced in the control observation, and 14.6 and 18.5 mils when chlorophyll solutions were used. The results were interpreted to show that the chlorophyll did not remove or alter all the mercaptan exposed to it. In the second experiment, passing the mercaptan gas through chlorophyll solution did not reduce the volume of the gas. "Nose tests" were applied in other experiments to detect the presence or absence of mercaptan in a bell jar in which it had been exposed to chlorophyll for some time. Similar experiments were also carried out using ether and syrup of garlic. In one case only did the results show a possibly complete deodorant effect, on which the author cast doubt because of a strong smell of chlorophyll with that particular solution. It was concluded that chlorophyll when exposed in that way to an odour does not remove the odour from the air. Other tests showed no difference in the effect on the persistence of the smell of perfume when acted on by (a) water, and (b) concentrated or dilute solutions of chlorophyll. A similar experiment using slices of onion instead of perfume showed no difference after twenty-four hours, when the experiment "had to be abandoned because the smell was so offensive." Tests using stoppered tubes containing a solution of mercaptan showed that, although tubes containing a perfumed solution of chlorophyll yielded a smell after standing for seventy-two hours, the smell of the perfume emerged after shaking and masked the smell of mercaptan. Tests with stoppered test tubes showed that chlorophyll solution did not remove the smell of a syrup of garlic.

Tests on a patient incontinent of urine and faeces brought no apparent response. In another test an observer whose urine usually developed a characteristic odour after eating asparagus swallowed forty-eight 100 mgm. tablets of a proprietary water-soluble chlorophyll in twenty-four hours preceding a meal in which asparagus had been served. Two hours later the urine which he passed smelt strongly of volatile substances of asparagus, and even twelve hours later the odour was still detectable.

Basis of Tests Criticised

Dr. William Mitchell (chief chemist, Allen Chlorophyll Co., Ltd.) offers strong criticism of the conditions of the tests described. He points out that Dr. Brocklehurst fails to define his materials, and gives the concentration of only one sample, which is "reported" to contain "12.5 per cent. water-soluble chlorophyll." His method of preparing mercaptan is "entirely novel, not to say amazing," and perhaps accounts for the fact that 30 mgm. of his product had a gaseous volume of 130 mils, instead of the 14 mils one would expect. The first two experiments failed to comply with the requirements that the water-soluble chlorophyllin and the mercaptan should be in intimate contact for a suffi-

cient period of time, and there was no means of knowing whether the amount of mercaptan was more than could under any circumstances have been deodorised. Failure to deodorise garlic in the fourth experiment could, in Dr. Mitchell's experience, only arise from the use of insufficient chlorophyllin. Substances such as ether and perfume materials are not deodorised by chlorophyllin, he points out, in any circumstances. The clinical tests he refrains from discussing, but states that they constitute only an isolated set of unfavourable subjective results to be set against a much larger number of positive results obtained elsewhere.

A "Reply to the Critics"

A paper by Dr. Mitchell is being presented to the *Svenska Teknologföreningen*, Stockholm, on March 13. In it he states that it is the water-soluble chlorophylls, especially those containing copper, that are mainly used as deodorising and therapeutic agents. Those derivatives are not known to occur in plants. In face of the deodorising claims, he had started by being the complete sceptic. The first step to partial belief was based on a practical observation. After distilling essential oil of garlic it normally took anything up to two weeks to render the plant fit for the distillation of any other essential oil. A works chemist, in jocular mood, left the condensers filled overnight with a dilute solution of sodium copper chlorophyllin. To his surprise the condensers, after a wash and brief steaming, were free from garlic odour, and fit for immediate use for other work. Tests disclosed that water-soluble chlorophyll derivatives had little or no deodorising effect on the majority of substances tested, including most of the materials normally used in perfume and flavour compositions, but did have a distinct deodorising effect on numerous sulphur-containing, odorous compounds such as inorganic and organic sulphides and disulphides, thioglycollic acid and its salts, mercaptans such as benzyl mercaptan, and oils such as those of onion and garlic. He had done research into the mechanism of the deodorising action and could advance a partial explanation. When a suspension of benzyl mercaptan in water is mixed with an aqueous solution of sodium chlorophyllin, or of sodium copper chlorophyllin, and allowed to stand for twenty-four hours, the mercaptan odour completely disappears. The green mixture now contains a suspension of colourless, odourless crystals of dibenzyl disulphide. Benzyl mercaptan readily undergoes that change simply by aerial oxidation, but much more slowly. The suggestion, said Dr. Mitchell, was that chlorophyllin acts as an oxygen carrier. It is not a true catalytic action, since the amount of mercaptan that can be deodorised is limited. On recovery from the reaction mixture, the chlorophyllin appears to be virtually unchanged in chemical behaviour, colour, and spectrophotometric properties, but it no longer has the power to deodorise benzyl mercaptan.

NEW DIPHTHERIA PROPHYLACTIC

THE discovery of an adjuvant factor for diphtheria prophylactic has been made by Lahiri of the Haffkine Institute, Bombay, India (*British Medical Journal*, 1953, 1, 370). The factor is called the natural adjuvant factor (NAF) and the final product, natural adjuvant factor toxoid (NAFT). The author found that the antigenicity of toxoid derived from veal-infusion-proteose-peptone was greater than that produced by other media. The extra potency was found to be caused by the presence of an adjuvant factor which could be diffused through transparent cellulose tissue and could be absorbed on activated charcoal and eluted by dilute sodium hydroxide. The new prophylactic was a clear solution that could be sterilised by filtration and freeze-dried without damage to its antigenicity.

TRANSPLANT TO TRINIDAD

Offshoot of a ninety-six-year-old Canadian pharmaceutical manufacturer, Rogers & Howe, Ltd., makes a bid to capture new markets in the Caribbean

WHAT not long ago was an idea prompted by the forbidding impact of quota trading, by devaluation, and by Canadian foresight, is now a lusty half-a-million-dollar pharmaceutical industry in Trinidad. British West Indies. By its establishment, Rogers & Howe, Ltd., manufacturing chemists, have changed the nationality of products formerly associated with the parent company: Northrop & Lyman Co., Ltd., Canada.

Prompt Progress

Since foundation it has made good progress, so far as conditions have allowed. Between the period March 22 and November 27, 1952, its purchases book recorded an expenditure on drugs, chemicals and related manufactures valued at £8,282, not including purchases in Trinidad. Those amounts were in addition to gifts by Northrop & Lyman of appreciable quantities of raw materials when the business was set up. British industry could provide a major share of those purchases, though the figures show that the amount of business secured by British exporters so far is not so great as it might be.

At the end of three months' activities the entire upper floor of a commodious building at Queen and Henry Streets, Port-of-Spain, has become a multi-departmental theatre of pharmaceutical routine. Phrases such as "Canadian origin" formerly frequent in the speech of Caribbean commerce, have changed to "Trinidad Manufacture." The history of the pharmaceutical preparations and household remedies now common to both houses—and their immigration as raw materials in particular—remains picturesquely far-flung. The production schedules are repeatedly exhausting supplies of essential, fixed, and synthetic oils, syrups, essences, pharmaceutical and fine chemicals, and crude botanical drugs. At present the United States (Virginia)

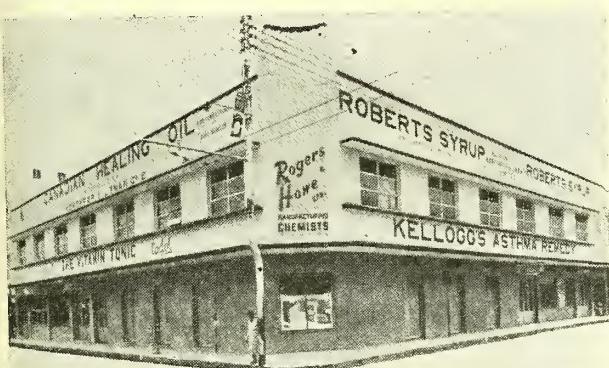


Labelling and cartoning products brought by belt from a filling machine.

Kirkwood B. Howe, B.A. (Toronto) one of its two managing directors, who graduated at Upper Canada College, has a long experience of manufacturing in the production department of Northrop & Lyman Co., Ltd., which has largely been controlled by the Howe family since 1857. Both his grandfather (Mr. E. D. Howe) and his father (Mr. H. J. Howe) have held the position of president. Mr. K. B. Howe became production manager in 1946 and vice-president in 1950. The other managing director (Mr. Morris J. Rogers) was sales manager of Northrop & Lyman Co., Ltd., for twenty-five years and has had considerable experience in the marketing of medicinal products and knew the Caribbean's trade potential. Since 1945 he has made annual tours of the West Indies and Central and South America, watching market trends, establishing and reorganising agencies and bettering distribution. Trade regulations in force in Trinidad and in the rest of the British West Indian islands, strongly favour buying in the United Kingdom. But availability and resourcefulness are always influencing factors.

A PHARMACIST'S ANTHOLOGY

"My God!" cried Freddie, dropping his monocle in his emotion. "Is everybody over here nuts? This is the fifth case of Peterson's Pup Food I've come across in the last two weeks. And they call England a dog-loving nation. Do you want those hounds of yours to get rickets, rheumatism, sciatica, anaemia, and stomach trouble? Well, they jolly well will if you continue to poison them with a product lacking, I happen to know, in several of the most important vitamins. Peterson's Pup Food, forsooth! What they need, to make them the well-muscled, vital, one-hundred-per-cent, he-dogs they ought to be, is Donaldson's Dog-Joy. Donaldson's Dog-Joy is God's gift to the kennel, whether it be in the gilded palace of the rich or the humble hovel of the poor. Dogs raised on Donaldson's Dog-Joy become fine, strong, upstanding dogs who go about with their chins up and both feet on the ground and look the world in the eye. Get your dog thinking the Donaldson way! Let Donaldson make your spaniel a super-spaniel! Place your Irish setter's paws on the broad Donaldson highroad and watch him scamper away to health, happiness and the clear eye, the cold nose, and the ever-wagging tail! Donaldson's Dog-Joy, which may be had in the five-shilling packet, the half-crown packet, and the . . ."—From "Full Moon," by P. G. Wodehouse.



Trinidad headquarters of Rogers & Howe, Ltd.

is its best supplier of botanical drugs, but citrates, lactates, alkaloids and glycerophosphates have come from the United Kingdom; meat extract from Denmark; malt extract from Scotland; vials, nozzles and glassware from England, Germany, Holland and Czechoslovakia; and cartons, metal and cork from the United Kingdom, Holland and Spain.

Of the £8,282 spent on imports during the period under review, the United Kingdom received £1,668, taking second place to Holland (£2,246). Third came the United States (£1,036) with Norway following (£826). With staff at a present strength of thirty-one, the company has plans for vigorous expansion in the West Indies and in Central and South America and among the staff are executives qualified to guide the company to economic success. Mr.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, MARCH 11: Trading in PHARMACEUTICAL CHEMICALS during the week was on a restricted scale both on home and overseas accounts. Price movements included a £15 per kilo reduction in the schedules for SANTONIN by British manufacturers. It was only a month ago that those schedules were lowered by £11 10s., the reduction at the time being attributed to increased production. Stocks are not so abundant that large orders can be dealt with immediately although little difficulty is experienced with small quantities. CALAMINE and ZINC CARBONATE were reduced by twopence-half-penny per lb. reflecting the recent low values of zinc oxide.

The firmer tone noted recently in a number of CRUDE DRUGS continued as increased inquiry for replaced parcels kept most prices steady. Re-sellers of Nicaraguan IPECAUANHA on finding that their recent offers were unacceptable shaded their c.i.f. quotations by 1s. 6d. per lb. No business was reported at the new level and spot supplies meanwhile are virtually unobtainable. The prices of many SPICES remained unchanged but increased demand for GINGER pushed up the price from 10s. per cwt. to 11s. for African on the spot, and the shipment price of new-crop Jamaican by 1s. PEPPERS were generally firmer with moderate demand from the United Kingdom and the Continent. Chinese MENTHOL was somewhat easier at origin. SENNA shipments from Tutticorin during February were as follows:—

	U.K.	U.S.A.	EUROPE
LEAVES ...	Bales 15	Bales —	Bales 223
PODS ...	Bales 10	Bales —	Bales 79

Among AROMATIC SEEDS, Dutch CARAWAY attracted little interest. A few inquiries for CUMIN were received. Spot stocks of FENNEL are reported s.o.d.

For the first time in several weeks LEMONGRASS OIL was easier. Among the ESSENTIAL OILS quoted higher were Brazilian PEPPERMINT, Bourbon GERANIUM and LAVANDIN. Offers from Brazil for peppermint were about 1s. 3d. per lb., c.i.f. Some holders of EUCALYPTUS on the spot were inclined to ask slightly higher prices in view of replacement costs but the large supplies held here offset that tendency.

EXCHANGE RATES

ON LONDON

At the opening on Wednesday

*Alexandria ..	Piastres to £	97½-97¾
Amsterdam ..	Florins to £	10.56-10.72
*Bombay ..	Shillings to rupee	1/5 15/16-1/6 1/16
Brussels ..	Francs to £	139-141
Copenhagen ..	Kroner to £	19.20-19.48
Dutch West Indies ..	Florins to £	5.24-5.32
*Hong Kong ..	Shillings to \$	1/2 1/2-1/2 1/8
*Karachi ..	Shillings to rupee	2/1 1/2-2/1 1/8
Lisbon	Escudos to £	79.90-81.10
*Montreal T.T.	Dollars to £	2.77-2.77½
New York ..	Dollars to £	2.78-2.82
Oslo	Kronor to £	19.85-20.15
Paris	Francs to £	972-988
Stockholm ..	Kronor to £	14.37-14.60
*Singapore ..	Shillings to £	2/3 1/2-2/4 1/2
Zurich	Francs to £	12.14-12.35

*Free market rates; remainder Bank of England.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, MARCH 10: The Government's action in ending price controls on copper chemicals brought a quick rise in COPPER SULPHATE crystals to \$10.85 per 100 lb. (up \$1.50). The appointment of a task group to consider problems in regard to licensing of exports of ANTIBIOTICS and SULPHONAMIDE drugs has been recommended by a special advisory committee, and the Office of International Trade will name such a group from the industry. A Bill has been introduced into Congress to prohibit the export of drugs and foods from the U.S. which do not meet the standards for domestic distribution.

Brazilian MENTHOL continued its sharp advance, jumping to \$6.00 per lb. (up 55 cents). PARA-AMINOBENZOIC ACID at \$2.50 was lower by 50 cents per lb. Higher per lb. were GUM ARABIC, amber sorts, at 13 cents (up one-half cent), and CATNIP LEAVES at 70 cents (5 cents). Lower per lb. were Kobe strip No. 1 AGAR at \$1.95 (15 cents) and LOBELIA at 40 cents (2 cents). Nominal quotations for MERCURY were down by \$3 per flask.

With some gain in activity for Easter perfume and cosmetic buying, ESSENTIAL OILS were favourable for the season. SANDALWOOD was firmer at \$10.25 per lb., up 50 cents. Ceylon CITRONELLA at 50 cents was down 5 cents.

Pharmaceutical Chemicals

ATROPINE.—Rates per oz. are:—ALKALOID, 58s. 9d.; 4-oz., 58s. 3d.; 25-oz., 57s. 9d.; SULPHATE, 48s. 9d.; 4-oz., 48s. 3d.; 25-oz., 47s. 9d. Lower quotations for larger quantities. METHYL NITRATE in 4-oz. lots is 78s. 6d. and METHYL BROMIDE, 76s. 6d. per oz.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	1-cwt.	28-lb.	7-lb.
CARBONATE ..	s. d. 24 5	s. d. 24 8	s. d. 28 6
SALICYLATE ..	s. d. 23 2	s. d. 23 5	s. d. 27 1
SUBGALLATE ..	s. d. 22 2	s. d. 22 5	s. d. 25 11
SUBNITRATE ..	s. d. 21 8	s. d. 21 11	s. d. 25 4

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. Rates of other salts are:—CITRATE, B.P.C., 22s. 11d.; NITRATE, cryst., 14s. 11d.; OXIDE, 28s.; OXYCHLORIDE, 28s. 1d.; OXYIODOGALLATE, 29s., and TRIBROMOPHENATE, B.P.C., 27s.—all 1-cwt. lots.

BRUCINE.—ALKALOID is from 1s. 8d. to 1s. 9½d. per oz., and NITRATE and SULPHATE from 1s. 7d. to 1s. 8½d. per oz., as to quality.

CALAMINE.—Lower. 1-cwt. lots are now 1s. 8½d. per lb.

CALCIUM CHLORIDE.—B.P. crystals are 1s. 0½d. per lb. in 1-cwt. lots and exsiccated, 9½d.

CALCIUM SUCCINATE.—Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 6d. per lb.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

CHLORBUTOL.—28-lb. lots are at the rate of 13s. 6d. per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

CHLOROFORM.—1-cwt. lots in winchesters are now 3s. 6d. per lb.; 56-lb., 3s. 6d. In drums, prices are 3s. 4d. and 3s. 4½d.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CINCHOPHEN.—1-cwt. lots are quoted at 24s. 9d. per lb., with smaller quantities up to 27s. 9d. per lb.

COCAINE.—Rates per oz. are as follows: ALKALOID and SALICYLATE, 4-oz., 27s. each; ½-oz., 53s. each; 1-oz., 104s.; 4-oz., 103s.; 8-oz., 102s.; 16-oz., 101s.; tins, 25-oz., 100s.; HYDROCHLORIDE and NITRATE, bottles, ¼-oz., 24s. 6d. each; ½-oz., 48s. each; 1-oz., 94s.; 4-oz., 93s. 3d.; 8-oz., 92s. 3d.; 16-oz., 91s. 6d.; tins, 25-oz., 90s. 6d.

DICOPHANE (DDT).—Prices are from 3s. 6d. to 4s. 3d. per lb. as to quantity.

FERROUS SULPHATE.—1-cwt. lots of B.P. crystals are 36s. 6d. and 5-cwt., 35s. 6d. per cwt.; granulated, 2s. 6d. per cwt. EXSICCATED is 92s. 6d. and 90s. respectively.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, 20 per cent., 5s. 9d.; CALCIUM, soluble, B.P.C., 12s. 3d.; IRON, B.P.C., scale, 17s. 3d. and powder, 16s. 3d.; MAGNESIUM, soluble, B.P.C., 15s. 3d. and insoluble, 7s. 6d.; MANGANESE, 28s. 9d.; POTASSIUM, 50 per cent., 4s. 3d. and 75 per cent., 6s. 3d. SODIUM, 50 per cent., 3s. 3d. and 75 per cent., 4s. 9d.

HYDROGEN PEROXIDE.—20 vols. is 4s. 2d. per gall. for carboy lots.

ISOPRENLININE SULPHATE.—B.P.C. is 2s. 6d. per gm. for 100-gm. lots.

MAGNESIUM HYDROXIDE.—B.P.C. — Makers' price for 1-cwt. lots is 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

METHYLPHENOBARBITONE.—B.P. is 63s. per lb. (1-cwt. lots).

METHYL SALICYLATE.—In 5-cwt. lots, price is 3s. 2½d. per lb.; 1 cwt., 3s. 3d.; 56-lb., 3s. 3½d.

PANCREATIN.—1-cwt. lots, B.P., is now 8s. 6d. per lb. and U.S.P., 10s. 6d.

PAPAVERINE.—Synthetic HYDROCHLORIDE is in the region of £46 per kilo.

PHENACETIN.—In 5-cwt. lots makers' price is now 7s. 2d. per lb., 1-cwt., 7s. 3d.

QUINIDINE.—Prices, per oz., for smalls is 9s. 11d.; HYDROCHLORIDE, 9s. 3d., and SULPHATE, 7s. 7½d.

SANTONIN.—Lower. The following prices now apply in the home market, including Eire:—5-kilo lots, £63 per kilo; 2.4-kilo lots, £54 10s.; 1-kilo, £66; 500 gm., £67 10s.; 250 gm., £69; smaller quantities, £72.

SPARTEINE SULPHATE.—Price is 5s. 8d. per oz.

STILBOESTROL.—Quotations are from 1s. 2d. per gm. to 1s. 7d., as to quantity.

ZINC CARBONATE.—Lower. 1-cwt. lots of B.P.C. are now 1s. 8d. per lb.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 9d. per lb.; 28-lb., 2s. 1d.

Crude Drugs

BALSAMS. — *Canada*: Spot is about 27s. 6d. per lb. for clear bright paper-filtered. *Copaiba*: Soluble Para, spot is 16s. per lb., duty paid. *Peru*, 11s. 6d. per lb., duty paid. *Tolu* (genuine as imported) on the spot is 20s. per lb. nominal; for shipment, 18s., c.i.f.

BELLADONNA. — **ROOT**. — A parcel testing 0.44 per cent. is offered at 2s. 3d. per lb. on the spot, duty paid; **LEAVES** are from 3s. per lb., as to test.

CAPSICUMS. — *East African* on stalk are 150s. per cwt., spot, and 130s., c.i.f., off stalk, 195s., and 160s., c.i.f.

CASCARA SAGRADA. — Firm. American bark is from 335s. to 345s. per cwt., duty paid.

CINNAMON. — *Ceylon* for shipment (c.i.f.), 0000, 2s. 8d.; 000, 2s. 7d.; 00, 2s. 6d.; O, 2s. 5d.; firsts, 2s. 2½d.; seconds, 2s. 2d.; thirds, 2s. 1d.; quillings, 1s. 4½d.; featherings, 1s. 2d.; chips, 6½d., nominal, per lb.

CLOVES. — Quiet. Offers of *Zanzibar* on the spot are 11s. 3d. per lb. and 10s. c.i.f., for shipment.

GINGER. — Firm. *African* on the spot is now 115s. per cwt., and forward at 105s., c.i.f. Spot quotations for *Jamaican* are about 127s. 6d. for No. 3; new-crop for March-April shipment, 125s.

GUAIACUM RESIN. — Quotations are from 2s. 9d. per lb. for spot material.

GUM ACACIA. — Firm. *Kordofan* cleaned sorts on the spot are 97s. 6d. per cwt.; new-crop, March-April shipment, 84s. 6d., c.i.f.

HENNA. — *Indian green leaves* are about 72s. 6d. per cwt. on the spot, and 70s. c.i.f. forward. *Egyptian* is 100s., spot.

HONEY. — Firm. Spot supplies of *Australian* are from 107s. 6d. to 120s. per cwt., as to quantity; *Argentine* is quoted from 115s. to 125s.; *Jamaican* is scarce and prices are nominal.

IPECACUANHA. — Firm. Spot: *Colombian*, 41s. per lb.; *Nicaraguan*, 46s. nominal. Forward: *Colombian*, 39s., c.i.f.; *Nicaraguan*, 44s., c.i.f.

JALAP ROOT. — A parcel of *Vera Cruz* testing 11.9 per cent. is offered at 3s. 2d. per lb.

KARAYA. — No. 1 gum on the spot is unchanged at 200s. per cwt.; No. 2 is 165s.; No. 1, for shipment, is 185s., c.i.f.

KOLA NUTS. — *African* halves are available on the spot at 4½d. per lb., 3½d., c.i.f., for shipment.

LIQUORICE. — Natural whole root, spot: *Anatolian*, 52s. 6d. per cwt.; *Russian*, 45s.; *Syrian*, 40s. to 42s. 6d. Block juice quotations are from 185s. to 195s., duty paid. *Turkish stick* is 250s. per cwt., duty paid; *Italian stick*, 47s. per cwt., duty paid.

LOBELIA. — Herb is 3s. 6d. per lb., spot.

MACE. — *West Indian pale blade* is 7s. 6d. per lb., for shipment, 6s. 9d., c.i.f.

MASTIC. — Tears (No. 2) are 11s. 9d. per lb., on the spot.

MENTHOL. — *Brazilian* is 42s. per lb. *Chinese*, 52s. 6d., both duty paid on the spot. Shipment: *Brazilian*, 40s.; *Chinese*, 47s. 6d., both c.i.f.

MERCURY. — Nominal spot value is £71 per flask, ex warehouse.

MYRRH. — *Aden* selected sorts are quoted at £16 per cwt., on the spot. Siftings are from £7 10s. to £8 10s., and granulated, £13.

NUTMEGS. — *West Indian* 80's quoted at 3s. per lb. on the spot and 2s. 6½d. c.i.f., for shipment.

ORANGE PEEL. — Bitter quarters, *Spanish* 1s. 10d. per lb., duty paid; *West-Indian*, 1s. 3d.

ORRIS ROOT. — Offers of good quality *Florentine* are now 155s. per cwt., ex-warehouse.

PAPAIN. — *East African*, grade 1 is 38s. per lb.; *Ceylon white*, 40s.; and sun-dried, 36s. on the spot.

PEPPER. — *White Sarawak* on the spot is easier at 11s. 3d. per lb., ex wharf. *Black Malabar*, 1,125s. per cwt.; *Black Sarawak*, 9s. 4½d. per lb., and *Black Lampong*, 11s. 3d. per lb., spot.

PODOPHYLLUM. — *Emodi* root on the spot is 170s. per cwt. *Peltatum*, 336s.

QUILLIAIA. — Forward rates are firmer. Whole bark is £110 per ton, c.i.f. Spot, £125.

RHUBARB. — *Shensi* is 11s. 6d. per lb.; *Double Deer No. 1*, 8s.; with other grades of *Chinese rough round* at from 3s. 9d. to 6s., all duty paid.

SAFFRON. — *Mancha superior* is offered on the spot at about 150s. per lb.

SANDARAC. — *Morocco* is offering on the spot at 13s. per lb.

SARSAPARILLA. — *Jamaican native red* is 2s. 6d. per lb. on the spot.

SEEDS. — **ANISE.** — Quiet. Spot, *Cyrus*, 140s. per cwt.; *Turkish*, 140s., duty paid, and 132s. 6d., in bond. **CARAWAY.** — Sellers asking 87s. 6d., duty paid. **CELERI.** — *Indian* is still quoted at 1s. 10½d. per lb., spot London. **CORIANDER.** — Market steady. Spot, *Morocco* is 36s. per cwt., duty paid, and 33s., in bond; *English*, 70s. Shipment, *Morocco*, 34s., quoted c.i.f., London. **CUMIN.** — Spot quotations (per cwt.) are: —*Cyrus*, 140s.; *Indian*, 150s.; *Morocco*, 150s., duty paid. **DILL.** — *Indian* is quiet with sellers at 77s. per cwt., spot London. **FENNEL.** — All spot stocks reported sold. **FENUGREEK.** — *Morocco* is 43s. per cwt., duty paid, in London or Liverpool. **MUSTARD.** — *English*, 72s. 6d. to 95s., according to quality.

SENEGA. — Spot supplies are from 14s. to 14s. 3d. per lb.

SENNA. — *Tinnevelly LEAVES*: Prime No. 1 on the spot is 1s. 4d. per lb.; Prime No. 2, 1s. 2d.; Prime No. 3, 11d.; f.a.q., 10d. PODS, f.a.q., from 1s. 2d. to 1s. 4d.; hand-picked range from 2s. to 3s., ex wharf. *Alexandria PODS*, manufacturing 1s. 10d. to 2s. 3d.; hand-picked, 3s. to 4s. 6d.

SHELLAC. — Spot quotations are: —*F.O.T.N.*, pure, 172s. 6d.; *F.O.* standard No. 1, 190s.; fine orange, 215s. to 265s. per cwt., ex-London warehouse.

SLIPPERY ELM BARK. — Selected slabs are 4s. per lb., and grinding quality, 3s. 3d. spot.

STRAMONIUM. — *Indian LEAVES* are 5½d. per lb., spot, and *European*, 97s. 6d. per cwt.

STROPHANTHUS. — *Kombé*, 100 per cent. is quoted at about 16s. per lb., on the spot, and *Gratus*, 25s. per lb.

STYRAX. — Spot is 5s. 9d. per lb., duty paid.

TRAGACANTH. — Unchanged. No. 1 ribbon on the spot is £130 per cwt.; No. 2, £110; No. 3, £80.

VANILLIN. — Present rates (per lb.) are as follows: —5-cwt. lots, 35s.; 1-cwt., 35s. 3d.; 56-lb., 35s. 6d.; smaller quantities, 35s. 9d.

WAXES. — **BEES'.** — *Dar-es-Salaam*. Spot, 435s. per cwt., March - April shipment, 415s., c.i.f. *Sudanese* and *Abyssinian*, 365s., c.i.f.; spot, 410s., duty paid.

CANDELILLA. — Spot is 645s. per cwt. **CARNAUBA.** — Prime yellow, spot, 1,235s. per cwt.; afloat, 1,180s., c.i.f.; shipment, 1,170s., c.i.f.; fatty grey, spot, 910s. per cwt., 880s., c.i.f.

MONTAN. — *Reibeck crude* on the spot is 135s. per cwt. **OURICURI.** — Spot, 0.5 per cent, impurities, 690s. per cwt. **SPERMACETI.** — Case lots are 2s. per lb.

Essential and Expressed Oils

ANISE. — Spot supplies are offered at from 7s. 3d. per lb. for original drums, and for shipment about 7s., c.i.f.

BAY. — *W. Indian* is 9s. 6d. per lb. on the spot.

BERGAMOT. — Spot value is about 82s. per lb.

BOIS DE ROSE. — *Brazilian* on the spot is 30s. per lb.

CADE. — Supplies of *Spanish* are from 2s. per lb., ex warehouse, London.

CAJUPUT. — Spot supplies are 22s. 6d. per lb.

CAMPHOR, WHITE. — *Chinese* is 3s. 3d. per lb. on the spot.

CANANGA. — Supplies to come forward are quoted at from 60s. per lb., c.i.f. *Java* is available on the spot at 72s. 6d. per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 25s. per lb. for spot.

CARDAMOM. — Offers are from 275s. to 280s. per lb.

CASSIA. — Original drum; are about 19s. per lb. for spot and 17s. 6d., c.i.f.

CEDARWOOD. — Spot quotations for African are from 5s. per lb.

CHENOPODIUM. — 1-cwt. lots are 68s. per lb.

COD-LIVER. — Medicinal, B.P., is 10s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CUBEB. — English-distilled is offered at from 50s. to 55s. per lb. Imported is quoted at 60s. per lb.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb.

EUCALYPTUS. — D.um lots of 70 to 75 per cent. eucalyptol on the spot are 4s. 3d. per lb., and 80 to 85 per cent., 4s. 6d.

GARLIC. — English is from 50s. to 55s. per oz.

GERANIUM. — Bourbon on the spot is 70s. to 72s. 6d. per lb.

LAVANDIN. — Spot supplies are offered at 17s. 6d. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is about 44s. per lb.

LEMON. — B.P. (4 per cent. citral) on the spot is from 40s. to 45s. per lb.

LEMONGRASS. — East Indian is 8s. 3d. on the spot and 8s. per lb., c.i.f.

LIME. — Supplies of West Indian distilled are offered at 45s. per lb., on the spot.

ORIGANUM. — In original containers the price is 14s. per lb.

OTTO OF ROSE. — Turkish is from 325s. per oz., and Bulgarian, 450s., nominal, spot.

PALMAROSA. — East Indian is from 42s. 6d. per lb., on the spot, and 40s., c.i.f.

PATCHOULI. — Seychelles on the spot is scarce. Penang is offered at 50s. per lb., spot, and forward at 46s., c.i.f.

PEPPERMINT. — *Arvensis*, Chinese in drums is 30s. per lb. and cases, 31s. 6d.; *Brazilian* is 17s. Forward: *Chinese*, 28s. 6d.; *Brazilian*, 15s. 3d.; both c.i.f. *Italian* "Mitcham" type oil is 49s. to 52s. 6d. per lb., as to quality, for original drums, delivered. Forward, 47s. 6d., c.i.f.

PETITGRAIN. — Paraguay on the spot is from 17s. per lb. Forward, 15s. 3d., c.i.f.

PINE. — *Puniflorus* on the spot is from 16s. per lb.; *sylvestris*, 9s.; *Siberian (abietis)*, 13s.

SASSAFRAS. — *Brazilian natural* is offering at 6s. 3d. per lb., duty paid, and 4s. 9d., c.i.f.

SPEARMINT. — Offers are from 62s. 6d. to 67s. 6d. per lb., as to holder.

CLOVE SUPPLIES

A REPORT by the Clove Growers Association of Zanzibar covering the second quarter of the seasonal year 1952-53, states that during that quarter 960,859 lb. arrived in the central market. This brought the total for the half-year ended December 31, 1952, to 2,533,571 lb. of which 1,518,461 lb. was the produce of Pemba. The total for the same period in 1951 was 6,182,856 lb. Prices fluctuated between 675s. and 900s. during the quarter and the small supplies delivered to the market were quickly sold. Because of the large stocks in India and small consumption on account of higher prices, India did not import Zanzibar cloves during the year 1952. Singapore (48.4 per cent.) and the United States (48.4 per cent.) were the chief markets. Arrivals of clove stems at the Association's dépôt during the quarter totalled 184,033 lb. Exports of clove oil totalled 22,537 lb. during the quarter, of which the United Kingdom took 11,699 lb. and the U.S. 10,838 lb.

WORLD TRADE

Italian Output of Mercury.—Italian output of mercury in 1952 amounted to 1,926 metric tons compared with 1,856 in 1951.

India's Imports of Cosmetics.—The token quota for toilet requisites has been doubled from 15 to 30 per cent. by the Indian Government.

Turkish Opium Exports.—During January opium was exported from Istanbul to the value of £T75,000, of which £T45,000 worth was taken by Great Britain.

France: Organic Dye Duties.—France has suspended import duties on a number of organic dyes until the end of this year. Thirty per cent. duties were reimposed in June 1952 to protect the domestic industry from foreign competition.

Brazilian Imports.—A list has now been published of imports allowed to enter Brazil under licence at the official rates of exchange. The list is largely composed of essential foods and other materials which includes chemicals and pharmaceuticals. The official rate of exchange in terms of the U.S. dollar is about 18.50 cruzeiros.

U.S. Tariff Recommendations.—Sweeping changes in United States trade and tariff policies have been recommended to President Eisenhower by the Public Advisory Board for Mutual Security after a six-months' study. Among its proposals were the complete elimination of "unnecessary" tariffs on many imports. The report said that many U.S. trade practices conflicted with foreign policy aims.

Pakistan Import Policy.—Under the Pakistan Government's new import policy, applications are invited for licenses to import from the non-dollar area the following:—Camphor, antibiotics, certain injectable solutions, crude drugs, saccharin and various drugs and medicines. No licence applications will be granted for imports of chemicals, surgical instruments and essential oils, from the dollar area.

TRADE MARKS

From the "Trade Marks Journal," March 4

For industrial chemical products (1)

CREM-O-RISE, 711,081, by R. Lehmann & Co., Ltd., London, E.C.3. SMOOTHEX, B713,433, by Alderson Products Proprietary, Ltd., Sydney, Australia.

For chemical preparations in liquid form for strengthening articles made of Nylon (1) NYLO, B712,714, by Louis Eli Steen, Glasgow.

For photographic sensitised materials (1)

DUPLITIZED, 714,314, by Kodak, Ltd., London, W.C.2.

For non-medicated toilet preparations (3)

HUNTSMAN, 712,113, by Lentheric, Ltd., London, W.1. ANDY PANDY, 712,700, by Andy Pandy, Ltd., 37 Park Street, London, W.1.

For all goods (3)

Device of G, B713,001, by Genatosan, Ltd., Loughborough. DEROZO, 714,400, by Scottish Co-operative Wholesale Society, Ltd., Glasgow.

For essential oils (3)

PURALIN, 714,410, by Lever Brothers, Port Sunlight, Ltd., Port Sunlight.

For analgesic balm for the treatment of rheumatic ailments (5)

ALESAL, 708,412, by Olivier Gaudin, Neuilly-sur-Seine, France.

For pharmaceutical preparations for the treatment of menopausal conditions (5)

STILBAN, 711,598, by Philip Harris, Ltd., Birmingham.

For pharmaceutical, veterinary and sanitary substances (5)

EMPIWAX, 711,691, by Marchon Products, Ltd., London, W.C.2.

For infants' and invalids' foods (5)

PAEDRON, PAEDROGEN, 712,169-713,841, by BM-Y, Ltd., Hyde, Cheshire.

For caustic substances for use in branding animals (5)

KOLDBRAN, 712,860, by Arnold & Sons Veterinary Instruments, Ltd., London, W.I.

For all goods (5)

TEXIL, 713,216, by Genatosan, Ltd., Loughborough. TERIDAX, 714,147, by Schering Corporation, New Jersey, U.S.A.

For deodorant tablets (5)

HEATHERDEW, 713,700, by Alcona Products, Ltd., London, N.W.1.

For olive oil for pharmaceutical purposes (5)

GOTA DE AMBAR, B702,268, by Productos Gota de Ambar, S.A., Barcelona, Spain.

For pharmaceutical preparations (5)

CHOCSEN, 714,168, by C. E. Fulford, Ltd., Leeds. ERYTHROCIN, 714,134, by Abbott Laboratories, Chicago, U.S.A. PURAPHYL, 714,330 by Imextrade (London), Ltd., London, W.C.1. KANGASAL, KANGADORM, VITAREST, 714,355-57, by William James Rogers, Johannesburg, South Africa. SULTRIPEN, 714,524, by James Woolley, Sons & Co., Ltd., Manchester.

PRINT AND PUBLICITY

Price Lists

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: Roche Price List, 1953. Pp. 16.

Show Material

FISH OPTICAL CO., LTD., 261 Harrow Road, London, W.2: Roadmaster night-driving glasses. Showcards and leaflets.

PARKE, DAVIS & CO., LTD., Staines Road, Hounslow, Middlesex: Euthymol showcard 654 to tie with new campaign in national Press.

Periodicals

H.M. STATIONERY OFFICE, KINGSWAY, LONDON, W.C.2: "Accidents—How They Happen and How to Prevent Them." Pp. 30. Vol. 14, January 1953, issued quarterly, published for the factory department of the Ministry of Labour and National Service. Price 1s.

G. B. FILM LIBRARY, Aintree Road, Perivale, Middlesex: "G. B. Film News," Bulletin No.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, March 18

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 36 York Place, Edinburgh, at 7.30 p.m. Mr. W. Anderson (Royal Technical College, Glasgow) on "Remedies for Hay Fever."

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Imperial Hotel, Barnstaple, at 7.30 p.m. Brains trust.

LEICESTER BRANCH, PHARMACEUTICAL SOCIETY, Boots' café, Gallowtree Gate, Leicester, at 7.30 p.m. Mr. A. R. G. Chamings (Ciba, Ltd.) on "Modern Drugs in the Making."

READING BRANCH, PHARMACEUTICAL SOCIETY, Great Western Hotel, Reading, at 7 for 7.25 p.m. Annual dinner and dance.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Blind Institute hall, Mappin Street, Sheffield, at 8 p.m. Informal dance.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, White Hart Hotel, Salisbury, at 5 p.m. Tea. At 6 p.m., meeting. At 7 p.m., film show by courtesy of Imperial Chemical (Pharmaceuticals), Ltd.

WESTERN PHARMACISTS' ASSOCIATION, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.30 p.m. Demonstration on "Photographic Make-up" by Miss Eve Gardiner (Max Factor Hollywood & London, Sales), Ltd.

Thursday, March 19

CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1 at 7.30 p.m. Nernst Memorial Lecture by Professor J. R. Partington, M.B.E., D.Sc.

CROYDON PHARMACISTS' ASSOCIATION and BRANCH, Café Royal, North End, Croydon, at 8 p.m. Films: "The Nose has it," "Neuro-psychiatry," "Cambridge" and "Instruments of the Orchestra."

DUNDEE AND EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Mather's Hotel, Dundee, at 7.30 p.m. Annual meeting.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.45 for 8 p.m. Sir Philip Manson-Bahr on "The Modern Drug Treatment of the Main Tropical Diseases."

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Annual meeting and members' night.

SHROPSHIRE BRANCHES, PHARMACEUTICAL SOCIETY, and NATIONAL PHARMACEUTICAL UNION, Boots' café, Pride Hill, Shrewsbury, at 7 p.m. Business meeting. A report on the recent London N.P.U. Branch conference is being presented.

THAMES VALLEY PHARMACISTS' ASSOCIATION, Kingston Hotel, Kingston-on-Thames, at 7.45 p.m. Address by Mr. B. C. Bryant (Imperial Chemical (Pharmaceuticals), Ltd.) and film show: "Man Against Insect" and "Birth of a Drug."

Press Advertising

SCRUBB & CO., LTD., Morden Road, Wimbledon, London, S.W.19: Scrubb's ammonia, dry cleaner, carpet cleaner, and paint cleaner. Spring campaign with high frequency insertions in the *Daily Express* and leading women's magazines. Territorial campaigns in over thirty local newspapers.

GLASGOW DISCUSSES ASSISTANTS AND THE CODE

Opposition to Society's Policy

A SPECIAL meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society recently discussed the Council's report on Assistants in Pharmacy and the proposed Draft Revised Statement on Matters of Professional Conduct. Mr. G. R. Milne (chairman of the Branch) presided.

A Further Memorandum

THE CHAIRMAN said that since the Branch had been asked to hold the meeting to ascertain members' views on assistants, a further memorandum dated December 12, 1952, had been received, which rather changed the problem. That stated that the Council had decided it was in the interests of pharmacy that the Society should regulate the conditions of training, examination, and registration of assistants in pharmacy. MR. MILNE said it had been proposed to discuss the principle, but they had now been informed the decision had already been taken, and they were merely asked to discuss details of the plan. He invited the views of members.

MR. H. KERRIGAN, Glasgow, said it gave him pleasure to move

"That it is the opinion of this meeting that there is no necessity for the Society to prepare a register of unqualified assistants, and further that, if such a register has already been prepared, it shall neither be published nor issued without previous consultation with all branches."

Mr. Kerrigan said one did not expect major matters of policy to be adopted without previous consultation. The whole question had been shrouded in secrecy, accompanied by veiled threats of action by the Government or the "apothecaries." They had been given no facts to support those assumptions. He felt the Council of the Society had not taken members into its confidence nor had it kept members informed of current events. During the past thirty years the standard of education had been steadily raised in pharmacy and registering assistants was a retrograde step. A circular letter of the Guild of Dispensers stated that their object was to seek statutory recognition and become associate members of the Pharmaceutical Society and be permitted to keep "open shop" at all times. That letter was enlightening and revealed the true aims of unqualified persons.

MR. D. SUTHERLAND, Glasgow, seconding the motion, said it was his opinion that they would weaken their position in National Health Service negotiations by accepting a register of unqualified assistants and would enable the Government to tell them that those assistants could do the work of pharmacists.

MR. J. D. MAIR, Glasgow, thought they should not be led into hasty judgment on the question. They were living in an age of organisation, and it must be accepted that people working for them would eventually become organised, whether it was by their own Society or by an outside body. He

favoured the granting of a certificate because he believed it would improve standards among assistants, and he also favoured unqualified persons being controlled by the Pharmaceutical Society, which would see to it that the responsibilities of assistants would always be subsidiary to those of pharmacists. Registration might underline the importance of the qualified man. He therefore moved an amendment to accept the action of the Society and to discuss points of education and standards. MR. J. M. INNES seconded the amendment.

MR. N. H. DONALDSON, Glasgow, was in sympathy with the resolution put forward by Mr. Kerrigan, though he felt that they should have a chance to discuss the matter before it was finally settled.

Secrecy "Ridiculous"

MR. D. BRODIE, Glasgow, supporting MR. KERRIGAN, said the secrecy surrounding the decision had been ridiculous. He agreed that assistants could not be prevented from organising and had no objection to the Society regulating the curriculum and setting standards for examination, but he did not think the Society should hold the examination or form a register.

MR. W. S. CULBERT said the Society's charter permitted them to act on behalf of pharmacists, not unqualified assistants. He believed that the Ministry of Health would eventually use registered assistants to fill hospitals and institutions, and perhaps even penetrate to retail pharmacy.

MR. J. K. WOOD, Glasgow, thought the Council had been rather underhand in the manner in which it had come to its decision. He thought it absurd that the Council which consisted of some twenty-five members should make such a decision without taking into account the views of the Society's 26,000.

THE SECRETARY pointed out that a small paragraph had appeared in the Society's journal of October 11, 1952, stating that the Council had decided to proceed with the proposal put forward in the report submitted to the present meeting. That decision did not appear to have been generally known in Edinburgh, because on October 20 he had been informed there that the decision would be taken during 1953.

MR. K. SCATCHARD, Glasgow, pointed out it was possible some other body might set examinations and form a register, and that organisation in time might become an opposing body to the Society. If a register were formed, the Society should control it.

MR. CARMICHAEL pointed out that if the Society instituted examinations, unqualifieds would have to be allowed, in justice, to dispense without supervision. Multiple shops would thus be able to have one qualified man and a dozen assistants, liberating other qualified men to open new branches.

PROFESSOR J. P. TODD said that pharmaceutical education had made great strides in the past, and the Ministry of Education had the power to set up

facilities for certificates for unqualified men. It was not logical to regard those persons as something new. It was possible the Society was trying to pull chestnuts out of the fire and retain some control. If the Society of Apothecaries were to organise things there would be no control. One had to remember the Ministry could start something in the nature of a Higher National Certificate, and they were powerless to prevent it. Pharmacists might decide not to employ them, but they would still exist if the Ministry decided that dilution was the answer.

MR. K. RICKMAN, Glasgow, remarked that the danger lay in setting an examination, which in due course some people would fail. They would thus be in the strange position of having unqualified "unqualifieds," and he thought the artisan tradesman line should be explored.

MR. A. MCFADYEN, Ayr, said that the Society's education policy had produced qualified pharmacists who were unpractical and uneconomic in retail pharmacy. It was a great pity they had drifted away from the old chemist and druggist qualification.

Making a final statement on his resolution, MR. KERRIGAN said that by allowing the Society to form a register they were giving away their rights. The apothecaries had been fighting a losing battle with the Pharmaceutical Society for the past 100 years. If pharmacists kept their rights intact, the fight was over. Either a pharmacist was qualified or he was not.

MR. MAIR'S amendment that the Society's decision should be accepted was defeated by an overwhelming majority. MR. KERRIGAN'S motion was carried.

It was decided to send the resolution to Edinburgh and London, and Mr. Brodie's suggestion that it be sent to all secretaries in Scotland asking their support was accepted.

Code of Ethics

Several speakers complained of the vagueness and ambiguity of the statement on ethics issued by the Pharmaceutical Society, and MR. J. B. STALKER, Dunbarton, thought they were wasting their time going into a draft framed in such a loose language.

MR. J. B. STALKER moved "that the rules should be strictly confined to matters of professional conduct, bearing in mind that a breach may be treated as 'misconduct' carrying with it the sanctions applicable under Section 7 of the Pharmacy Act, 1933; that the rules should be stated with the utmost clarity and be framed in the form of specific requirements or prohibitions rather than general exhortations; and that the rules should not seek to impose obligations with which it might be impracticable for members to comply." The resolution met with the approval of the meeting but it was agreed that Mr. Stalker should withdraw his motion with power to bring it up again at the February meeting, allowing the secretary to secure further information from the vice-president of the Society.

CHEMICALS IN FOOD PRODUCTION

A Scottish Conference

A CONFERENCE organised by Scottish Agricultural Industries, Ltd., in collaboration with the Department of Agriculture for Scotland with assistance from the technical staff of Fernhurst Research Station, Surrey, was held in Edinburgh recently.

Biology of Farming

DR. M. A. H. TINCKER (principal of the North of Scotland College of Agriculture) said: "I trust that the chemical engineer of the future will co-operate with farmers and learn something from them of the biology of farming. We hold fast to the view that British husbandry is an art based on applied biology."

DR. M. J. M. NOBLE (a plant pathologist from the Department's station at Corstorphine) contributing to a debate on chemical dressings for grain seed said: "Before you think about putting hormones in you should remember that hormones are in the seed already. Before you pellet seed I sometimes wonder if you think about the quality of the seed in the first instance. Seed treatment is an aid to good seed, but not a means by which bad seed can be redeemed."

PROFESSOR STEPHEN J. WATSON (principal of the Edinburgh and East of Scotland College of Agriculture), pleaded for increased attention to the climatic influences on weeds. The large-scale use of a chemical aid in, say, America was no justification for its large-scale introduction in Britain.

MR. W. D. SIMPSON, Highfield, North Berwick, said he had been told by his father that the best way to clean weeds was to plough them well down and grow a good crop on top. "That is still the best way of killing weeds," said Mr. Simpson, amid laughter.

DR. E. HOLMES (head of the technical department for Plant Protection, Ltd.) said that the question was frequently asked why a new chemical was not produced for this or that. He quoted American figures—and he "did not quarrel with them in detail"—to show that the consolidated cost of a new chemical going forward for large-scale production was about £500,000.

Hormone Weed-killers

MR. D. G. DEMPSTER (regional director for the North College) said that hormone weed-killers were of little value in the eradication of docks, coltsfoot, grass weeds, and wild oats. A general weed-killer for autumn application to stubble would be a help to farmers.

DR. H. P. ALLEN (senior botanist, Plant Protection, Ltd.) said that a really satisfactory chemical to kill ungerminated seeds of weeds had still to come. MR. A. K. M. MEIKLEJOHN (regional director for the East College) mentioned that some farmers felt hormone weed-killers might have a detrimental effect on soil organisms.

MR. I. V. HUNT (advisory officer in grassland husbandry to the West College) spoke about the worth-while achievements of hormone weed-killers in eradicating bracken in the Carse of

Stirling. The treated area was now flourishing—an outstanding example of success with selective weed-killers.

In a discussion on chemical protection for the potato crop, MR. A. D. C. MAIN, Perth, said that "blight" was a sign of maturity.

MR. J. F. H. CRONSHAY (Plant Protection, Ltd.) presenting the main paper on potato protection, said that warm, moist conditions favoured both blight and growth—an important feature af-

flecting the assessment of the value of spraying.

PROFESSOR JOHN KIRKWOOD (principal of the West of Scotland Agricultural College) asked for simpler terms such as farmers could understand for the chemical aids which were marketed.

DR. HOLMES said that a committee were now considering that problem.

DR. D. PRICE-JONES (Plant Protection, Ltd.) said one interesting development had been the successful application of λ-BHC dressing to grass and clover seed where wireworm attack was expected.

HORTICULTURAL FORMULAS

Lime

Lime (quicklime) for agri-horticultural use should be burnt stone lime. Its utility as a "cover" wash or lime-wash is impaired if the lime is partially hydrated or carbonated by exposure to air. The lime is slaked in the process of preparing the wash for the spraying machine. The usual strength against apple pests is:—

Best quicklime	10 to 15 lb.
Water	10 gall.

Stomach or Internal Poisons

Against leaf-eating caterpillars of moths, larvae of sawflies, beetles (e.g., chafers) and weevils (*Phyllobius* species and vine weevil), a lead arsenate wash is useful. Alternative formulas are:—

Lead arsenate paste	½ lb.
or	
Lead arsenate powder	½ lb.

Water	10 gall.
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The lead arsenate paste is placed in a bucket, a little water added, stirred thoroughly, and made up to 10 gall. The wash is kept agitated throughout the operation of spraying to prevent the precipitation of the arsenical particles. It is applied through a fine nozzle to ensure an even distribution of the particles over the foliage and buds. Move the nozzle from one direction to another fairly rapidly to prevent the drops running together and dripping from the leaves, and from collecting at the tips of the leaves. Avoid using in bright sun and on herb beds, salads, ripening fruits, etc.

Of the following poison-bran baits, I is used against cutworms or surface caterpillars and II and III against woodlice.

	I	
Paris green	½ lb.	
Bran	7 lb.	
Water	½ gall.	
	II	
Paris green	½ lb.	
Bran	7 lb.	
	III	
Paris green	½ lb.	
Dried blood	14 lb.	

Thoroughly mix the Paris green with the bran, and add sufficient water to moisten the mixture. Avoid adding too much water, which causes the particles to stick together in lumps.

The bait is broadcast evenly and thinly over the ground towards evening at the rate of $\frac{1}{2}$ -1 oz. per sq. yd. The dry bait is more effective than a moistened one against woodlice. Take all reasonable precautions to prevent

injury to dogs, cats, poultry and wild birds. Special tubs and receptacles should be used for mixing the poison baits.

Bordeaux Mixture

Bordeaux mixture must be freshly prepared from good quality materials. The customary wash is known as "4-4-50." A standard formula is:—

Copper sulphate (98 per cent.)	4 lb.
Best quicklime (in lump form)	4 lb.
Water	50 gall.

The copper sulphate should be dissolved in a small wooden vessel at the rate of 1 gall. of water per 1 lb. of sulphate (iron or tin vessels must not be used). The lime should be slaked to a fine paste with a little water in another vessel, water added gradually to make a milk, and the product finally diluted in a large barrel to the requisite amount (46 gall.). The copper sulphate solution (4 gall.) may now be poured slowly into the diluted milk of lime and the mixture stirred thoroughly during the process. The two components of the mixture may be kept separately for a long time, but the spray fluid produced after mixing should be used as soon as possible—certainly within twenty-four hours.

Burgundy Mixture

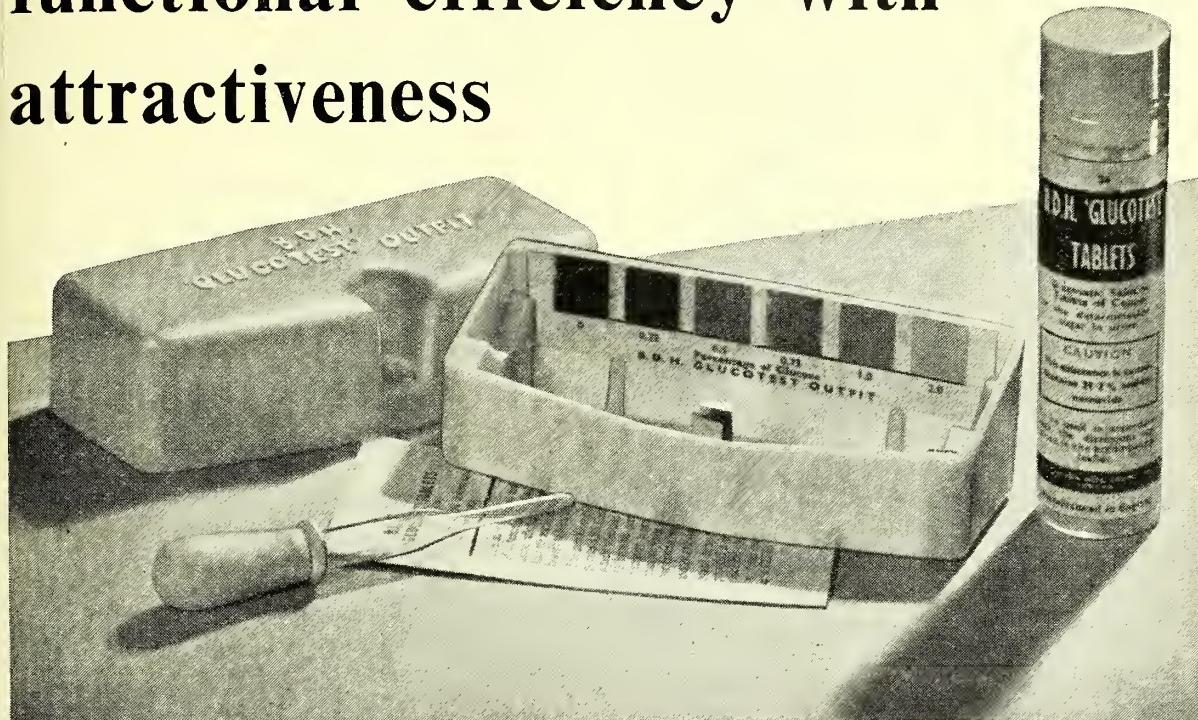
Burgundy mixture is recommended for use against American gooseberry mildew. It may be prepared as follows:—

Copper sulphate (98 per cent.)	2½ lb.
Sodium carbonate	2½ lb.
Water	12 gall.

Dissolve separately in wooden vessels and mix the solutions.

Annual Licensing Sessions.—At local licensing sessions recently the following were granted the licences shown in parentheses:—Mr. R. C. Crisp, M.P.S., Whipton, Exeter, Devon (wine off-licence); Mr. J. W. Fowler, managing director, Sturton & Sons, Ltd., wholesale and retail chemists, Bridge Street, Peterborough (wines and spirits off-licence at the company's branch at Dogsthorpe, Peterborough); Mr. J. Wilkinson, M.P.S., Wilsden, nr. Bradford, Yorks (wines and spirits off-licence). The transfer of an off-licence from a shop in Regent Street, Leamington, Warwickshire, formerly owned by Hutton & Barrett, Ltd., chemists, to another of the company's shops at 42 The Parade, Leamington, Warwickshire, was refused.

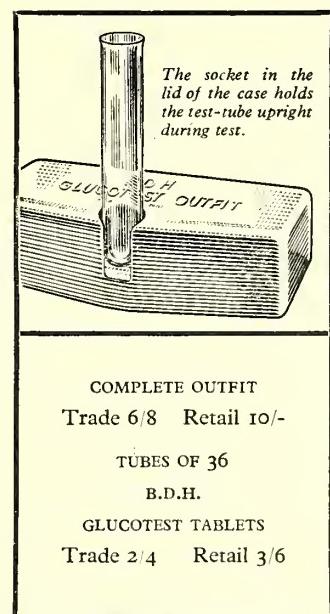
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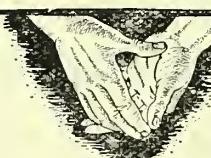
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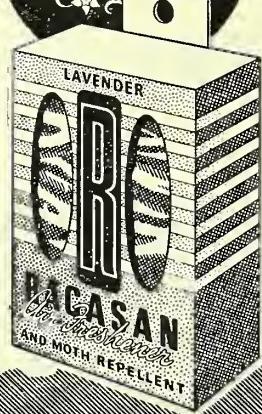
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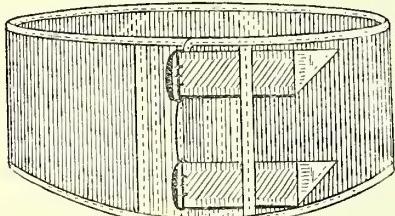
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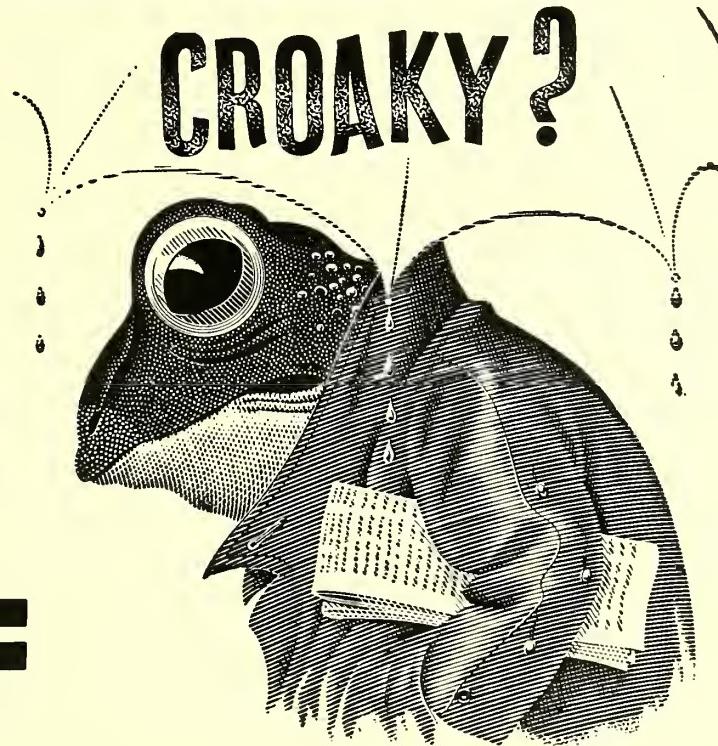
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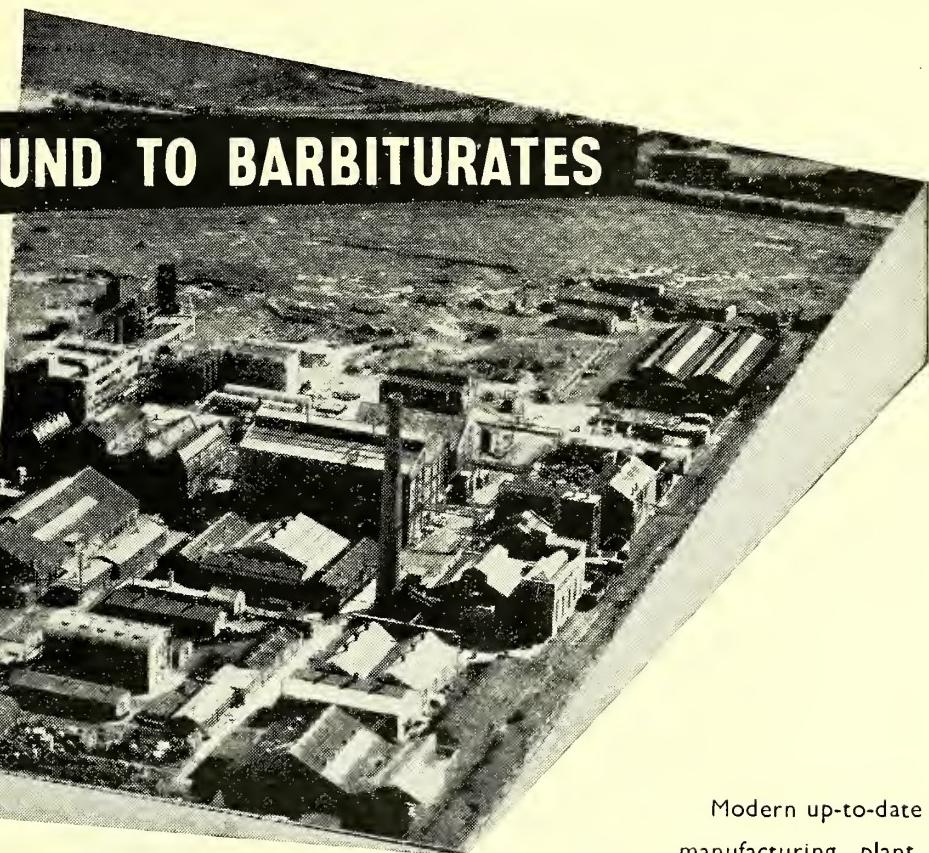
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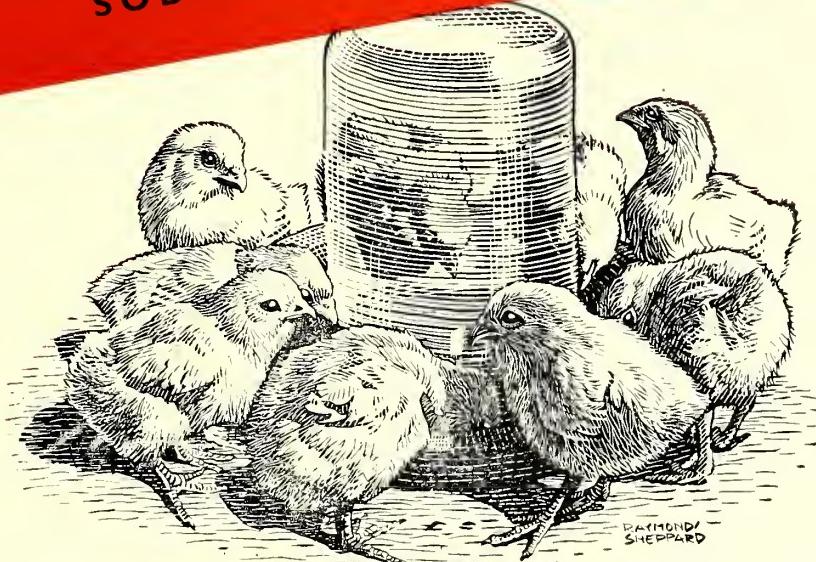
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Pn.269

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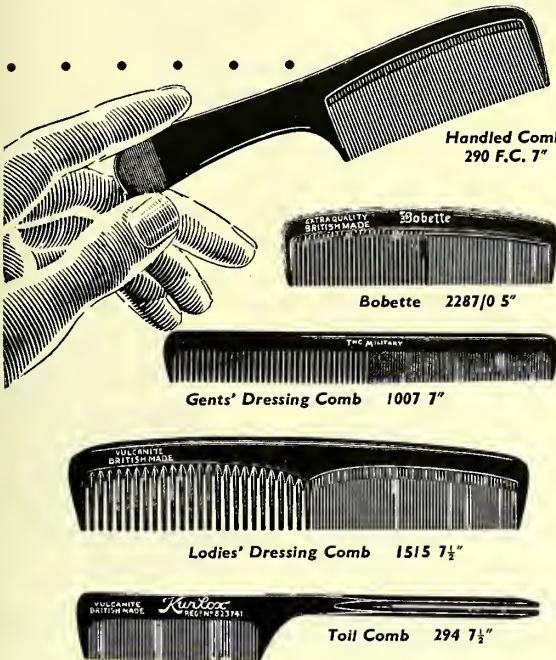
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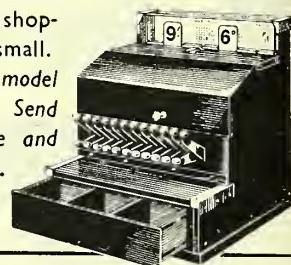
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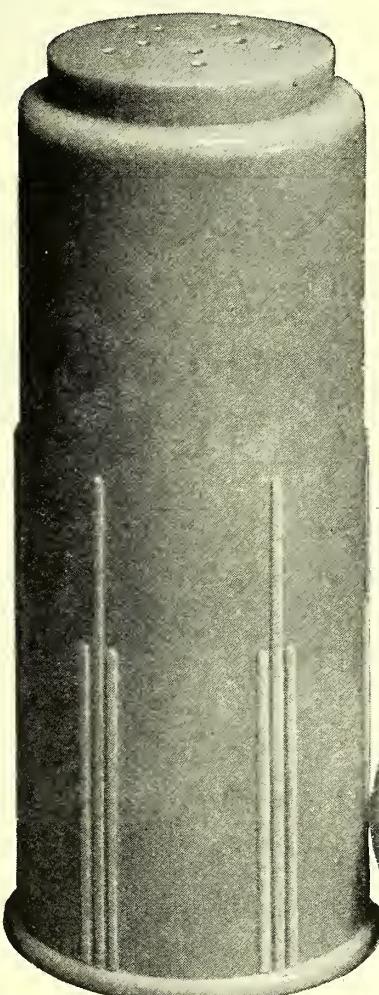
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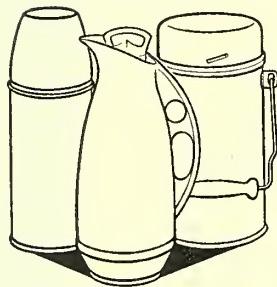
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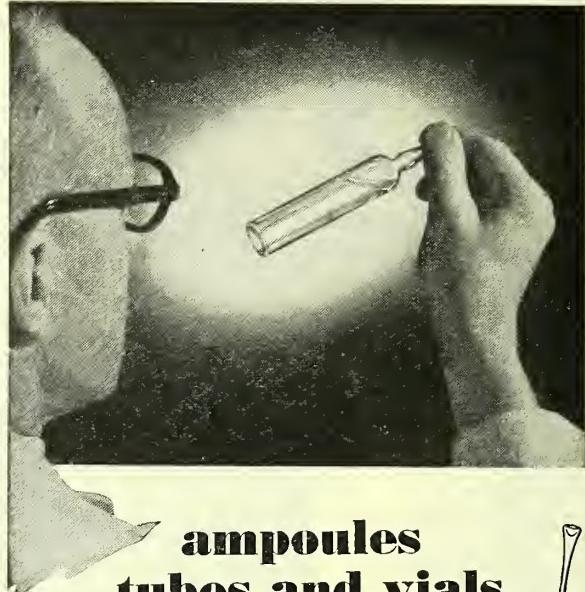
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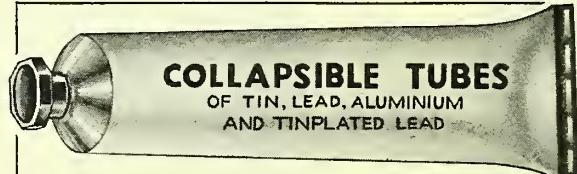
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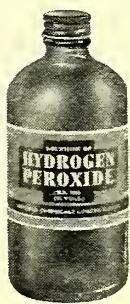
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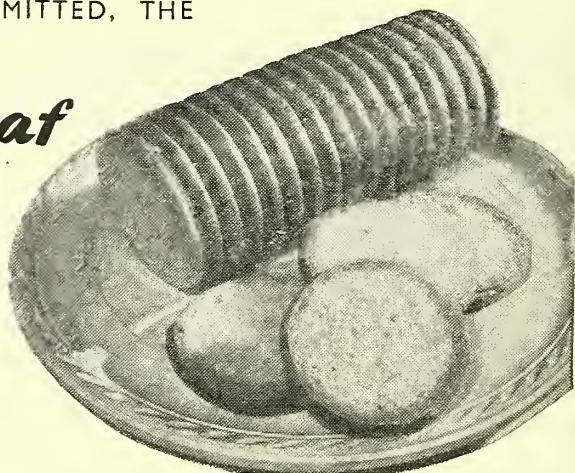
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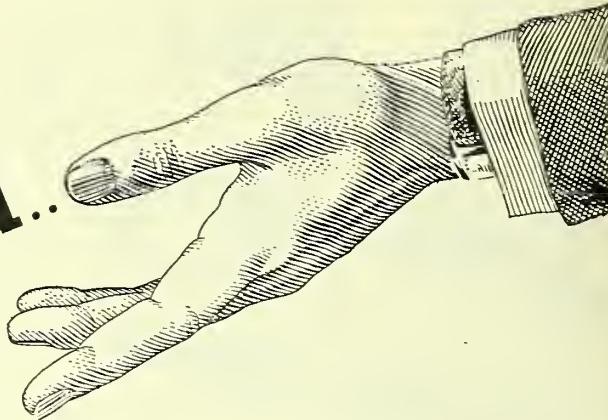
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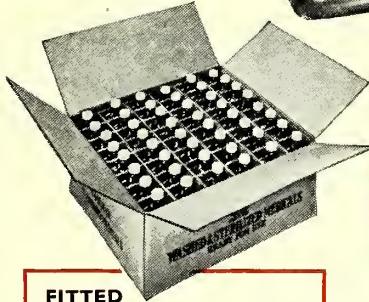
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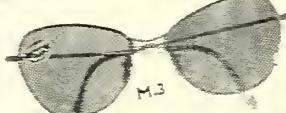
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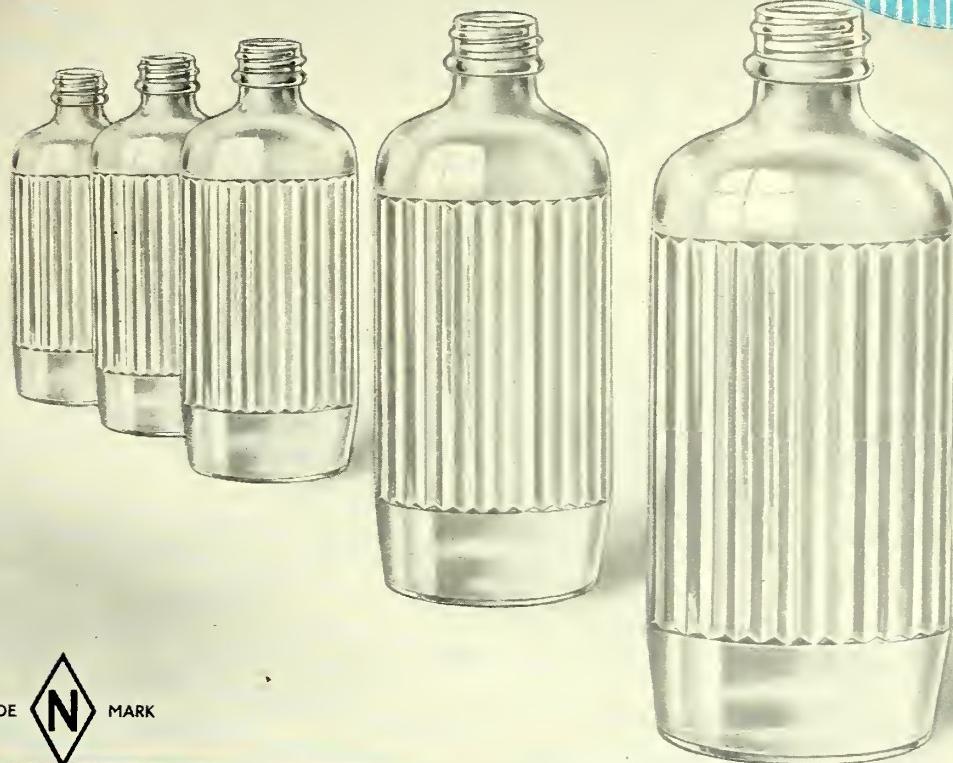
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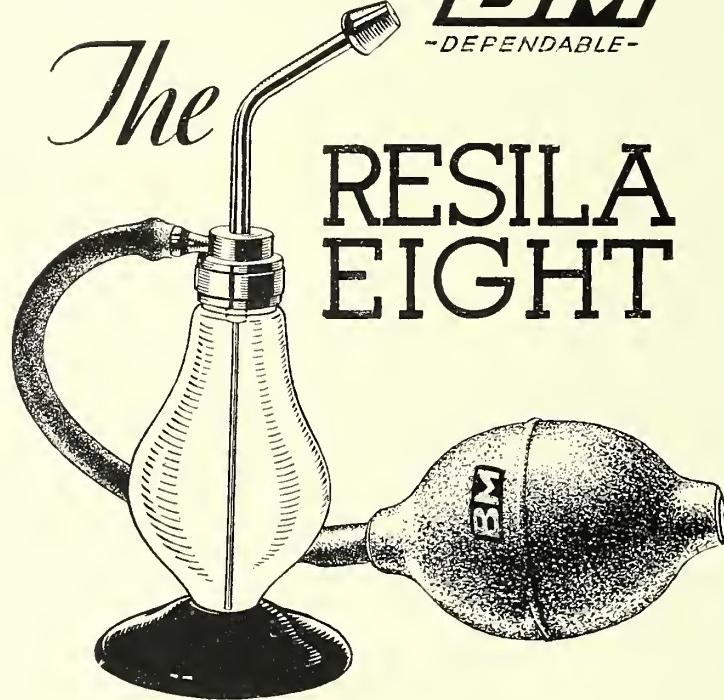
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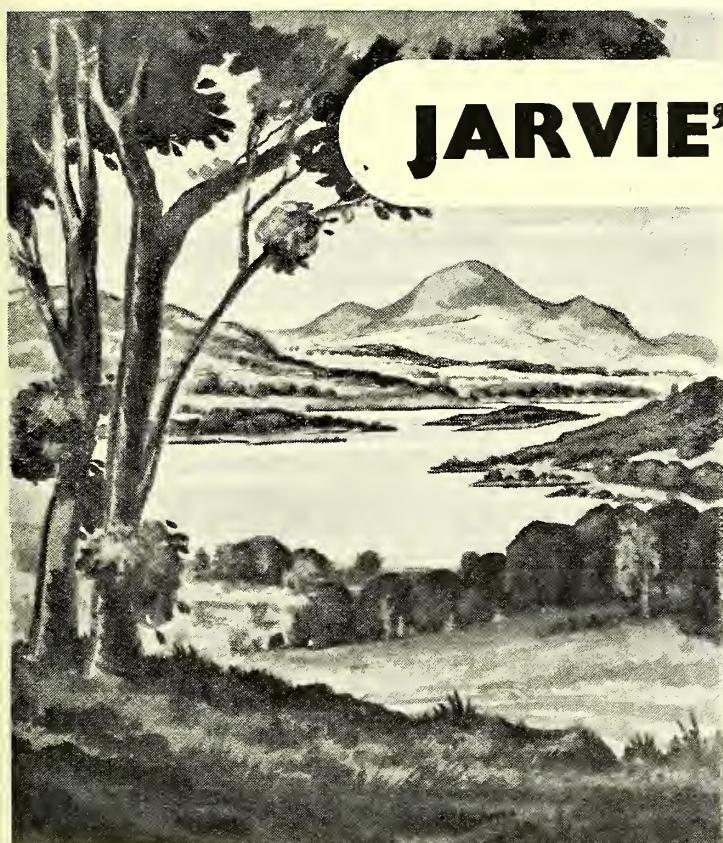
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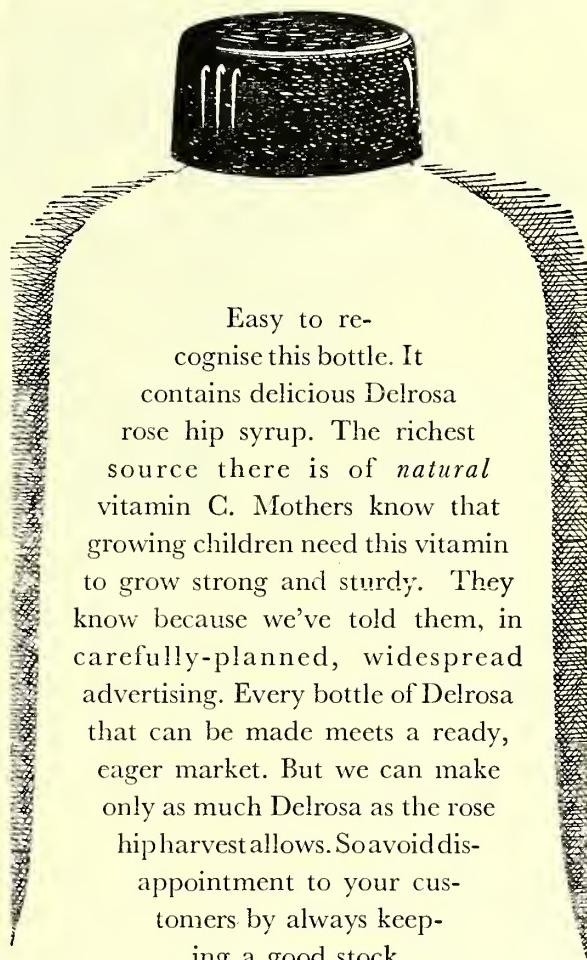
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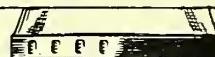
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Applications, stating age, nationality, details of experience, together with the names and addresses of two referees, are to be sent to the undersigned as soon as possible.

A. T. SAMPSON.
Group Secretary
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ASSISTANT IN DISPENSING required for the above Hospitals. It is desirable, but not essential, that applicants should hold the Certificate of the Society of Apothecaries of London.

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Apply immediately, naming two referees, to the Hospital Secretary, Royal Infirmary, Sunderland. C 5175

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W. STANSFIELD.
C 5180

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MEDICAL representatives required by ethical house for three areas: (1) S.W. London area; (2) Cheshire and Stoke area; (3) Durham area. Preferably experienced but must have sound pharmaceutical background. Permanent, progressive positions for first-class men able to produce results. Substantial salary, expenses and commission. Our staff know of this advertisement. Box C 5130.

MEDICAL REPRESENTATIVES. Established ethical house invites applications from experienced representatives with knowledge of doctors, hospitals and chemists in London. Give full particulars of experience, salary required, etc., to Box C 5168.

MEGGESON & CO., LTD., Pastille and Lozenge Manufacturers, have a vacancy, through death, for a representative, calling on chemists only, in the South-western Counties. The applicant should own a car for which a good maintenance allowance will be made. Remuneration will be by means of salary and commission and the man appointed will be invited to join the company's superannuation scheme. Applications should be addressed to the Sales Manager, Meggeson & Co., Ltd., 11 Garrison Lane, Chessington, Surbiton, Surrey. C 5172

PARKE, DAVIS & CO., LTD., invite applications from pharmacists for a junior executive position in their dry manufacturing division. The position is progressive and offers experience of modern large-scale production methods. Generous retirement pension, Five-day week. Canteen facilities. Write, with details of age and experience to Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. C 5159

PHARMACIST required by manufacturing chemists for control of raw materials and finished products and some experimental work. Experience with compressed tablets desirable. Good permanent position with prospects. Five-day week and canteen. Reply, in confidence, with full particulars giving experience, salary, etc., to Managing Director, Smith Kendon, Ltd., 132 Borough, London, S.E.1. C 3360

PHARMACIST required for progressive post in publicity department of ethical pharmaceutical manufacturers in London, N.W.10. Duties include preparation of propaganda literature, and other sales promotion duties. State experience and salary required. Box C 3338.

PHARMACEUTICAL CHEMIST, young, required with manufacturing and analytical experience, for old-established wholesale firm of manufacturing chemists in Midlands. Excellent prospects. Applications, in confidence, stating age, qualifications, experience and salary required to Box C 3320.

PHILIP HARRIS, LTD., require a representative for Birmingham and Coventry to call on chemists and doctors. Applicants should be under 35 years of age and should submit full details of experience to 144 Edmund Street, Birmingham. C 3352

PROGRESSIVE manufacturing company shortly requiring the services of three top grade creative salesmen for re-establishing following territories: (1) Scotland; (2) Yorkshire and Northern Counties; (3) London, South-west, Surrey, Sussex and Hampshire. The fine quality products (medicated confectionery and proprietaries) are well known and have many distinguishing selling features. Applicants (car owners) must possess long-standing connections and proved selling record in buyers' market. Positions are permanent and offer exceptional opportunities to the right men. Complete information required and necessary for fullest consideration prior to interview. Box C 3351.

REPRESENTATIVE working on a commission basis with established connection retail chemists and pharmacy departments in Dorset, Hampshire, Somerset and Wiltshire, required by English manufacturers of high quality vacuum flasks already nationally distributed. Existing customers would be handed over. Full particulars lines carried, ground covered and journey time to Box C 5192.

REPRESENTATIVES calling on manufacturing chemists required on commission basis to introduce unique business service of definite appeal to this industry—excellent opportunity for active representatives with live connections. Reply, giving brief outline of experience, connection and territory covered to Box C 5126.

FIRST CLASS SALES REPRESENTATIVES of proven ability required by Manufacturer of World Famous Tissue Handkerchiefs and Sanitary Towels to cover Wholesale and Retail Chemists. The areas vacant are —

1. Lancs, Cheshire and N. Wales
2. Derby, Notts, Leics, Stafford, Warwick.

Car essential. Remuneration by salary and expenses. Please reply in confidence, stating age, ground covered and full details of experience to date to Box C. 5162.

A WELL-KNOWN MANUFACTURER OF PHARMACEUTICAL PRODUCTS.

nationally advertised, has vacancy on sales staff for experienced representative for Scotland. Qualifications necessary are: (1) age under 45, (2) reside in territory, (3) possess own car, (4) sound connection with chemists and co-operative stores preferred, but consideration will be given to good selling record in other fields. The position carries generous salary, commission and expenses. Apply with full details of past experience in confidence to Box C 5140.

Situations Open—Continued

REPRESENTATIVES, qualified an advantage, with established connection and experience in selling to chemists: drugs, galenicals, dressings, plasters, proprietaries and chemists' sundries, required by wholesale and manufacturing house; must be car owner; salary, commission, expenses and opportunity of substantial income. Some Home Counties and London territories vacant. Apply to Biorex Laboratories, Ltd., 51 Exmouth Street, E.C.1. C 3332

TOILET AND TOILET SOAP preparations. Substantial national advertiser requires representative for Derbyshire, Nottinghamshire and Lincolnshire to call on chemists, departmental stores, grocers, co-operatives and wholesalers. Good salary and commission, expenses, car provided if necessary. Full details experience, age and present earnings to Box C 5178.

W. B. CARTWRIGHT, LTD.,

invite applications from pharmacists, with actual experience of, and conversant with, full scale production of galenicals, ointments, etc. Must have initiative and drive, able to plan extensions with modern methods, and plant. Five-day week. Contributory pension scheme. Good salary to the right man. Applications to: General Manager, Rawdon, Leeds. C 5125

YORKSHIRE manufacturing and wholesale chemists require experienced representative with a full knowledge of the trade. Preferably resident in or near Sheffield, with live connections. Salary, commission, expenses, car. Write interview. Box C 5120.

WHOLESALE (OVERSEAS)

BEECHAM GROUP, LTD., are recruiting production executives with pharmaceutical qualifications (preferably B.Pharm. Degree or Ph.C. Diploma) for service in their overseas factories in the Eastern and Western Hemispheres. Prior to taking up an overseas appointment, arrangements will be made for successful applicants to acquire product and process experience in home factories of the Group. The posts are pensionable and offer excellent opportunities for advancement. Reply, in the first instance with full particulars to Beecham Group, Ltd., Technical Division, Amami Buildings, North Circular Road, West Twyford, N.W.10. C 5114

WELL-KNOWN CHEMICAL manufacturers require a representative with previous sales experience to travel in Central America and British West Indies covering Caribbean markets. Candidates must have had a sound education with knowledge of chemistry to at least Inter. B.Sc. standard. Fluent Spanish is essential and preference will be given to unmarried men within the age group of 25 to 28 years. Training will be given before proceeding overseas. Apply, initially, in writing, giving full details of qualifications and experience to Box C 5186.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

RETAIL (HOME)

LADY DISPENSER, Apothecaries' certificate, requires post; permanent or locums considered, hospital appointment preferred or part-time doctors, chemists. Box C 3359.

WHOLESALE

COST ACCOUNTANT with wide experience in chemicals and pharmaceutical sundries, seeking position in similar capacity, due to cessation of trading of present company. Also accustomed to buying and selling, secretarial and administrative duties, free shortly. Box C 3257.

INTELLIGENT and energetic M.Sc. chemist, 36, from India, seeks position in U.K. in an established chemical and pharmaceutical manufacturing concern. Excellent references. Box C 3357.

LADY, B.Pharm., M.P.S., seeks post as medical representative in Ireland or Great Britain. Manufacturing and analytical experience. Box C 3335.

MEDICAL PRACTITIONER (hon. degree Continental university), Irish citizen, Church of Ireland, 45 years of age, research work Trinity College, Dublin, clinical work, Public Analyst's Laboratory (London), six years practical experience food/pharmaceutical industry as chemist/production manager (malt extract (diast.), vitamins, chocolate crumbs, dried milk, etc.), fluent French, Italian, German, expert photographer, would like similar position or medical representative research, secretary, collaboration paper anywhere. Box C 3347.

TABLET MAKER experienced granulating and compressing. Manesty rotary, single punch, seeks prospective post London area. Box C 3336

TRANSLATOR to French or Arabic, knowledge of pharmaceutics and physiology would help a pharmaceutical manufacturer in his translation problems. Contact A. Tedd, 29 Warrington Crescent, W.9. C 3342

TWENTY YEARS' EXPERIENCE in the trade in wholesale, retail and hospital pharmacy. Wide knowledge and experience of many aspects including prices, ethicals and current trends in therapeutics. Advertiser (unqualified, under 40), seeks change of post. London. Commercial, professional organisation, journalism. Salary required £650 p.a. Box C 3350.

AGENCIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

AGENT WANTED in Northern Ireland to handle perfumes in Coronation novelty packs, also latest American perfume novelties. Good commission. Box C 5190.

MANUFACTURERS of well-known branded line of toilet tissues seek the services of experienced agents on commission basis to call on the chemist trade only in the counties of:—Caernarvon, Cheshire, Cheshire, Cumberland, Derbyshire, Durham, Essex, Glamorganshire, Lancashire, Leicestershire, Lincolnshire, Middlesex, Norfolk, Northampton, Northumberland, Nottinghamshire, Staffordshire, Suffolk, Warwickshire, Westmorland, Worcestershire, and Yorkshire. Apply Box C 5163.

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

EIRE: Long-established organisation with 100 per cent. chemist accounts and selling many nationally advertised products is open for additional agency appointments. Staff of five first-class representatives make all contacts at regular 6/7-weekly intervals. Valuable connection with unqualified trade also available if required. Box C 3256.

BUSINESS OPPORTUNITIES

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Box 2/-

ADVERTISERS hold import licence for pharmaceutical drugs and medicines which they are at present not using. Would be willing to co-operate with buyers wishing to import items from the Continent, but who do not hold a licence. Box C 5105.

DEVELOPING, PRINTING, ENLARGING. We offer: Strict return of post service. All enlargements in free folders. Kodak materials used throughout. PDA prices. Modern equipment. Daily delivery Gloucester area. Waters' Commercial Products, Dept. CD, Niagara Works, Stroud, Glos. C 3191

MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, etc., of private formulae preparations, liquids, powders, tablets, ampoules, vials and all sterile preparations. Dispatch facilities available with own printing department. Frank Macowal & Yanatas, Ltd., Willshaw St., London, S.E.14. Tel.: Tideway 3846-8. C 122

WELL-KNOWN manufacturing chemists, perfumers, and packers to the trade, offer facilities for packing all types of pharmaceutical products, toilet preparations, etc., etc. All enquiries treated with strict confidence. Any type of packing or manufacturing undertaken. F. M. Langford, Ltd., 40-41 Wellclose Square, London, E.1. Telephone: Royal 4743 or 4744. C 3234

WANTED

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

BOTTLES, JARS AND CLOSURES purchased for cash we take this opportunity of advising you that we are open to purchase all stocks of medical bottles, screw caps, gummed tapes and other packaging materials. For top prices communicate with samples to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon St., E.C.4, Man. 3951/2. C 5076

WANTED: 1 ton sodium hydrosulphite in 1-cwt. drums with overkegs, 4/5 cwt. benzoic acid technically pure, 2 tons caustic soda flakes in 1-cwt. black corrugated drums, 3/5 tons sodium benzoate food quality. Box C 5170.

WANTED: 1 ton sodium nitrite, 98-100 per cent, in 4-cwt. drums; 1 ton sodium sulphide, 60-62 per cent, flake in 2-3-cwt. drums; 5 tons urea in paper-lined hessian bags; 1 ton sodium bisulphite, 60-62 per cent. Apply Box 5191.

WANTED: Woolgrease; nickel sulphate; nickel oxide, semi-liquid stearine pitch; 20 tons solid caustic soda standard strength; I.C.I. make; good colour green petroleum jelly; technical urca; English lactose, B.P. Box C 5185.

WANTED: Surplus or redundant merchandise, clearance goods of any description or discontinued lines. Cash immediately, no delay. Our representative will be pleased to call or, alternatively, please send samples with particulars; quantity and price. Lawrence Edwards & Co., 6-7 Wellington Close, Ledbury Rd., London, W.11. Telephone: Bayswater 4020. C 140

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

MEDICAL BOTTLES and jars, immediate delivery at prices below manufacturers: 60 gross 6-oz. U.G.B. bow panels; 400 gross 2-oz. white flint heavy base jars complete with green metal caps minimum 100 gross lots, 10/6d. per gross; 250 gross 1-oz. U.G.B. amber powder rounds and bakelite caps, 15/- per gross; 500 gross No. 3 oval white flint tablet bottles and white metal caps, 7/6d. per gross; 10 gross 32-oz. amber wide mouth stoppered bottles by Beatson Clarke, 80/- per gross; 50 gross blue and 50 gross white 12-oz. wide-mouth screw-neck emulsion bottles Beatson Clarke make at per gross 22/-; 25 gross 1/2-oz. Clinibritic vaccine bottles complete with bakelite caps and I/R caps 40/- per gross; many other bottles of all types and descriptions in stock, samples and full details from Messrs. Leon Davis & Co., 9 Laurence Pountney Lane, London, E.C.4. Mansion House 3951-3952. C 5122

EXCELLENT Anker "Colibri" labelling machine, complete, pulley drive, £75. Box C 3340.

'UNISEC' from the Single Unit to the Complete Pharmacy
WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING
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Miscellaneous Sales—Continued

FACE POWDER, LOOSE. Four shades. Rachel 1, Rachel 2, Peach and Natural. 1 oz. each shade. Finest quality, delightfully perfumed. Ready for use. Well-known firm distributing this line. Box C 3341.

MODERN CHEMIST SHOP fittings, drug ranges, wallcases with frameless sliding doors, display counters and showcases, all styles of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14-15 Manchester St., Liverpool. C 141.

NYLON TOOTH-BRUSHES, packed in cardboard cartons, each containing two dozen. One carton (2 dozen) 5/-, 3 cartons (6 dozen) 22 s. 6 cartons (1 gross) 42 s. Carriage paid home. Cash with Order or a/c. S. Schwan, Ltd., Northwich, Cheshire. C 3339.

STANDARD Saccharin Tablets, in packets of 100 and 200. Now the cheapest price for small and large quantities. Name and address printed at no extra charge. Samples and quotations from: Tell Products, Ltd., Welbeck Works, 99 Cedars Road, London, N.W.2. Telephone: WIMbledon 6333. C 7

TWO TONS snow white stearine triple pressed. Box C 5177.

SACCHARIN TABLETS, Government standard strength—packets of 100, 1-gross lots, 20s. gross. Sixty lots 48s. od. gross. Special prices for larger quantities. Registered post by return. Agnew & Simpson, Ltd., 31-37 Oxford St., Glasgow, C. 9991.

HOLIDAY ACCOMMODATION

DOUGLAS (L.O.M.D.) Hotel Metropole, sea front. Tel: 2381. Relaxing holiday for the businessman. Fully licensed. Resident Orchestra. Ballroom. Room service. Phones all rooms. Mid-week bookings available. Moderate tariff. Special June rates. Brochure 1, Barker. C 5131.

MISCELLANEOUS

PHOTOGRAPHY. Are you introducing new lines, installing new plant or processes? Have it photographed in monochrome or colour for publicity, technical journals, etc., by experts. Bignell Chemicals, Ltd., 51 King's Court South, S.W.3. Freeman 1277. C 145.

IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements and Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

SALES BY AUCTION

18/- per half-inch (min.) and pro rata. Box 2/-.

B. NORMAN & SON, 25 Little Britain (close to G.P.O.), London, E.C.1, will sell by Auction on Wednesday, March 18, at 1.30 p.m., excellent modern shop fittings including drug ranges, wall and centre showcases, plate glass counters, mirrors, display stands, office furniture, etc. View day prior. Catalogues (5d. post free) on application. C 5165.

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The C and D WEEKLY LIST OF PRICE CHANGES

* = Tax 10% per cent. A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; ** = Tax 33½ per cent.

BUCKIEPEGGS, LTD. Sole Distributors—MAY.
ROBERTS & CO. LTD. (from April 1)

	Doz.	I.R.P.
Bandages	5	9 4
	12	1 2 4
Cat-Cats	14	1 2 4
Toddler's cradle	13	1 6 4
Endo-egg brods	10	1 2 4

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. (from March 15)

Embutin	14s.-oz.	3 6 R
	28s.-oz.	31 8 R
	56s.-oz.	120 0 R
pre-mix 4 x 2-oz.	52	9 R
Entramite	pre-mix 24s.-oz.	55 0 R
	capsules 25	6 6 R
	300	27 6 R

The price of the 4 x 2-oz. Entramite pre-mix is unchanged.

THE BRITISH DRUG HOUSES, LTD. (from March 1)

	Each
Refined starch	50 1 10 1 4 R
	500 23 1 19 6 R
	1,000 24 1

Toxic tablets

dispensing pack 200 4 10 R

dispensing pack 1,000 24 1 R

P.A.T.A. PROTECTED LIST**Part 1**

ARTHUR H. COX & CO. LTD.

	Doz.
Eye oint. 50	11 0 3 3 4
Eye tonic 50	18 1 3 3 4

RECKITT & COLMAN, LTD. PHARMACEUTICAL DEPARTMENT (corrected rates)

For Dentin and Demolin the 5 per cent. discount applies to orders of not less than 10s. value. carriage paid, less 1s. per cent. for cash in fourteen days. The same terms operate also on an assortment of all analgesics including Dispiral. The following items are available on

Steradent—5 per cent. display discount on 4ls. and 10 per cent. display discount on 9s., both carriage paid, less 2 per cent. for cash in fourteen days. Steradent may be assorted for discount with other Reckitt products, including Dentin and Dispiral. Terms on application.

NEW PRODUCTS AND PACKS

BONOCHORD, LTD. Each 567 0

Telex 5

THE BRITISH DRUG HOUSES, LTD.

Mepilin elixir 14s.-oz. 5 10 0

20s.-oz. 25 6 38 3

BURROUGHS WELLCOME & CO.

Wellcome brand diaphoresis permanganate propylacetic acid

5 x 1 oz. rubber-capped bottle 10 oz. 5 8

CIBA LABORATORIES, LTD.

Priscol ophthalmic ointment 5-oz. 5 0

DAMANCY & CO. LTD. (from March 9)

Doz. 50 18 0 3 6 R

100 48 0 8 6 R

dispensing pack 500 17 6 R

dispensing pack 1,000 53 0 R

Doz. 25 19 0 3 6 R

50 57 0 11 9 R

Each 50 0 R

T.421 tabs. codein. co. forte 25 16 0 R

50 52 0 R

Each 1,000 57 0 R

Doz. 25 19 0 3 6 R

50 57 0 11 9 R

Each 50 0 R

Ovals 5. codein. co. forte 25 19 0 3 6 R

50 57 0 11 9 R

Each 50 0 R

dispensing pack 500 25 0 R

dispensing pack 1,000 50 0 R

Ovals	5A	codein.	co. forte	Doz.	12	8	R
				100	22	0	9 R
				Each			
				dispensing pack	500	15	0 R
				dispensing pack	1,000	30	0 R

DIN-DIN, LTD. Din-Din beef and liver pieces 1 9

EVANS MEDICAL SUPPLIES, LTD. (corrected note) Doz. 19 6 3 0

Rutan** 5 6 3 0

MAX FACTOR HOLLYWOOD & LONDON (SALES), LTD. Brownish-black eyebrow pencil 4 1

PARKE, DAVIS & CO. LTD. Caladryl cream tube 1½-oz. jar 14b. 4 3½

REVOLN INTERNATIONAL CORPORATION Fire and Ice "matchbox" 10 6

Lipstick 8 6

tail enamel 5 6

frosted nail enamel 7 6

ROLLS RAZOR, LTD. (from April 27) Viscount Rolls razor 49 9

leather pouch set 76 9

SILVERTHORN MANUFACTURES, LTD. Gross Surekill DDT fly and moth cards

English roses 32 0 2

Butterfly 24 0 3

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JAMES WOOLLEY, SONS & CO. LTD. Doz. 22 0 2 6

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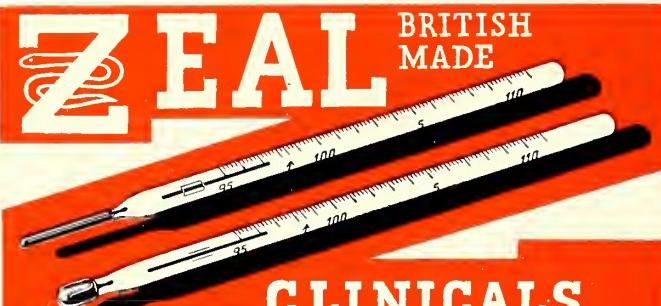
The
CHEMIST AND DRUGGIST

MARCH [14] 1953



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